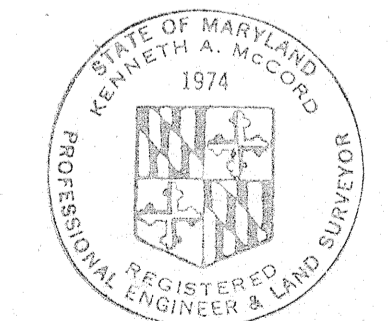


**CONTRACT 302-S**  
**SEWER MAIN EXTENSIONS**  
**HOWARD COUNTY, MARYLAND**  
**DEPARTMENT OF PUBLIC WORKS**

QUANTITIES	
ITEM	QUANTITY
8" S	20,170 LF
10" S	1,930 LF



Stakeout 476d  
 Diary #1 4773  
 Diary #2 4880  
 Diary #3 4933

*Kenneth A. McGee*

Contract No. 302-S

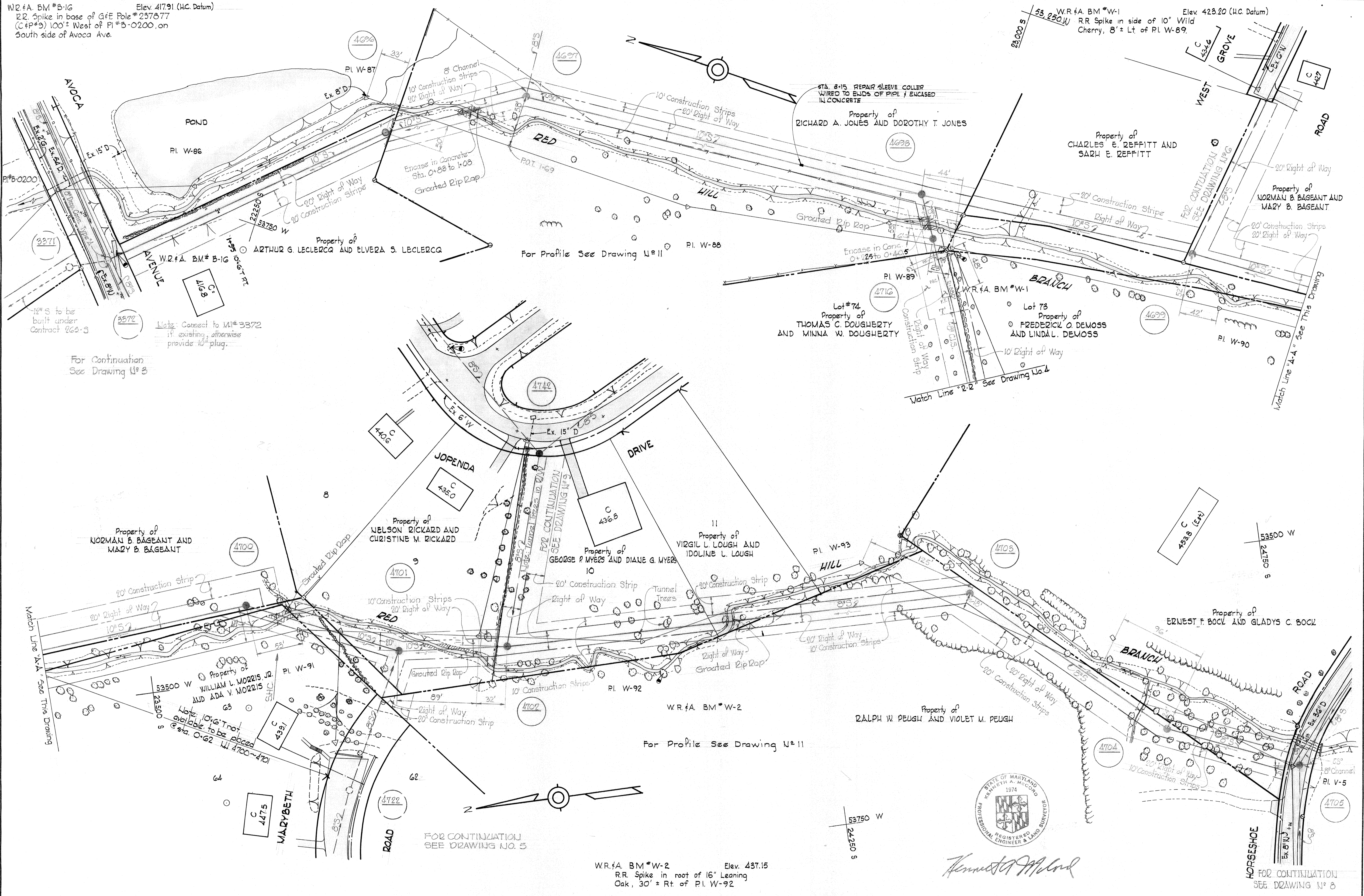
WHITMAN, REQUARDT & ASSOCIATES ENGINEERS 1304 ST. PAUL ST. BALTIMORE, MARYLAND	HOWARD COUNTY METROPOLITAN COMMISSION DATE <u>5-6-70</u> <i>W O Filbert</i> CHIEF ENGINEER	CONTRACT NO. <u>302-S</u>	LOCATION MAP	ELECTION DISTRICT ELLICOTT CITY No. 2	DRAWING NO. <u>1</u> OF <u>16</u> SCALE AS SHOWN
---	--	---------------------------	--------------	--	--

W. O. GIBBS-2

Oct 7, 1971

W.R.#A. BM#B-1G Elev. 417.91 (H.C. Datum)  
 R.R. Spike in base of G&E Pole #257877  
 (C&P#3) 100' West of P.I.#B-0200, on  
 South side of Avoca Ave.

W.R.#A. BM#W-1 Elev. 423.20 (H.C. Datum)  
 R.R. Spike in side of 10' Wild  
 Cherry, 8' = Lt. of P.I. W-89



For Continuation  
 See Drawing N#8

Note: Connect to M#3372  
 if existing, otherwise  
 provide 10' plug.

For Profile See Drawing N#11

Match Line "R-2" See Drawing N#4

Match Line "A-A" See This Drawing

For Profile See Drawing N#11

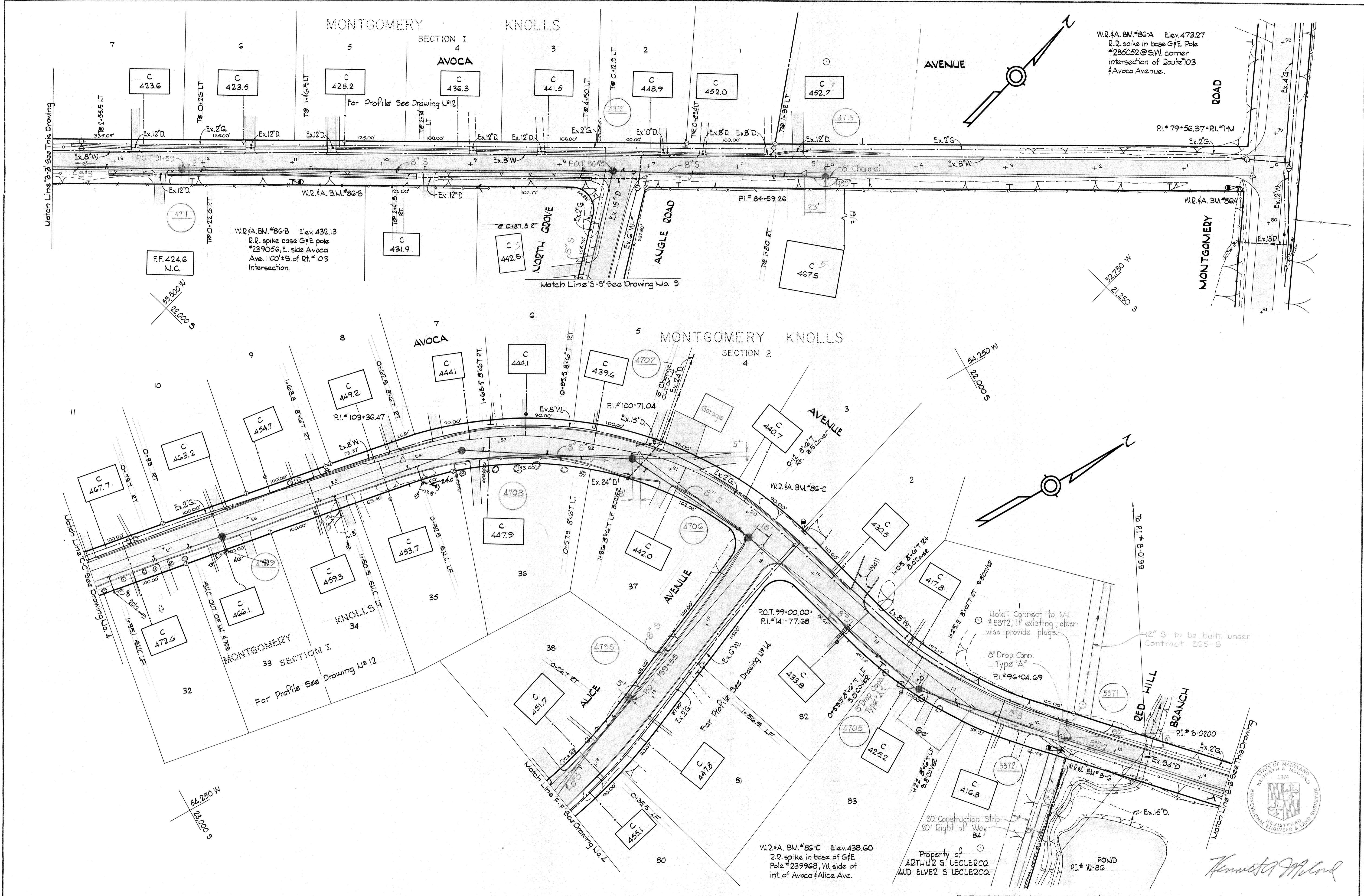
FOR CONTINUATION  
 SEE DRAWING N#8

Contract No. 302-S

WHITMAN, REQUARDT & ASSOCIATES ENGINEERS 1304 ST. PAUL ST. BALTIMORE, MARYLAND	HOWARD COUNTY METROPOLITAN COMMISSION DATE 5-6-70 <i>W O Fallick</i> CHIEF ENGINEER	CONTRACT NO. 302-S	PLAN OF SEWER MAINS	ELECTION DISTRICT ELLICOTT CITY No. 2	DRAWING NO. 2 OF 16 SCALE 1" = 50' 23 SW 36 24 SW 36 25 SW 36
---	---	--------------------	------------------------	--	---

W. O. GIBBS-2

WS 302-S/2



WS 302-S/3

WHITMAN, REQUARDT & ASSOCIATES ENGINEERS 1304 ST. PAUL ST. BALTIMORE, MARYLAND	HOWARD COUNTY METROPOLITAN COMMISSION DATE <u>5-6-70</u> <i>W O Folbert</i> CHIEF ENGINEER	CONTRACT NO. 302-S	PLAN OF SEWER MAINS	ELECTION DISTRICT ELLICOTT CITY No. 2	DRAWING NO. <u>3</u> OF 16 SCALE 1" = 50' Contract No. 302-S
---	--	--------------------	------------------------	--	---

W. O. 6185-2

FOR CONTINUATION SEE DRAWING No. 2  
*Henrietta M. Lind*  
 Contract No. 302-S  
 Oct 7, 1970  
 FB # 3011, 3008, 2204

# GENERAL NOTES

- Approximate locations of existing mains are shown. The Contractor shall take all necessary precautions to protect the existing mains and services and maintain uninterrupted supply. Any damage incurred shall be repaired immediately.
- All pipe elevations shown are invert elevations.
- The Contractor shall locate existing utilities a minimum of two weeks in advance of construction operations in vicinity of utilities.
- For all standard details, see Standards bound in Specifications.
- All sewer shall be V.C.P.X., C.S.P.X., or Asbestos Cement Class 2400 unless otherwise noted.
- Build all Manholes to existing ground or paving unless otherwise shown or directed by the Engineer.
- House connections shall be constructed only where and if directed by the Engineer in the field.
- Cost of Grouted Zip Rap to be included in the unit price bid for furnishing and laying of sewer mains.
- Manholes shown with 12" and 16" walls are for brick manholes only.
- Clear all utilities by a minimum of 6", clear all poles by 2'-0" minimum or tunnel as required.
- The Contractor shall provide a joint in all sewer mains within 2'-0" of exterior manhole walls.
- All horizontal and vertical controls are in Howard County datum.
- All 8" Cast Iron pipe shall be Class 22, or 8" Ductile Iron Pipe Class 2.
- House shown with symbol (C.N.S) indicate that the cellar cannot be served.



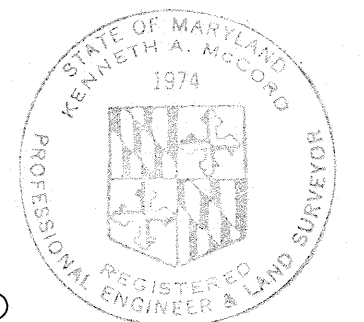
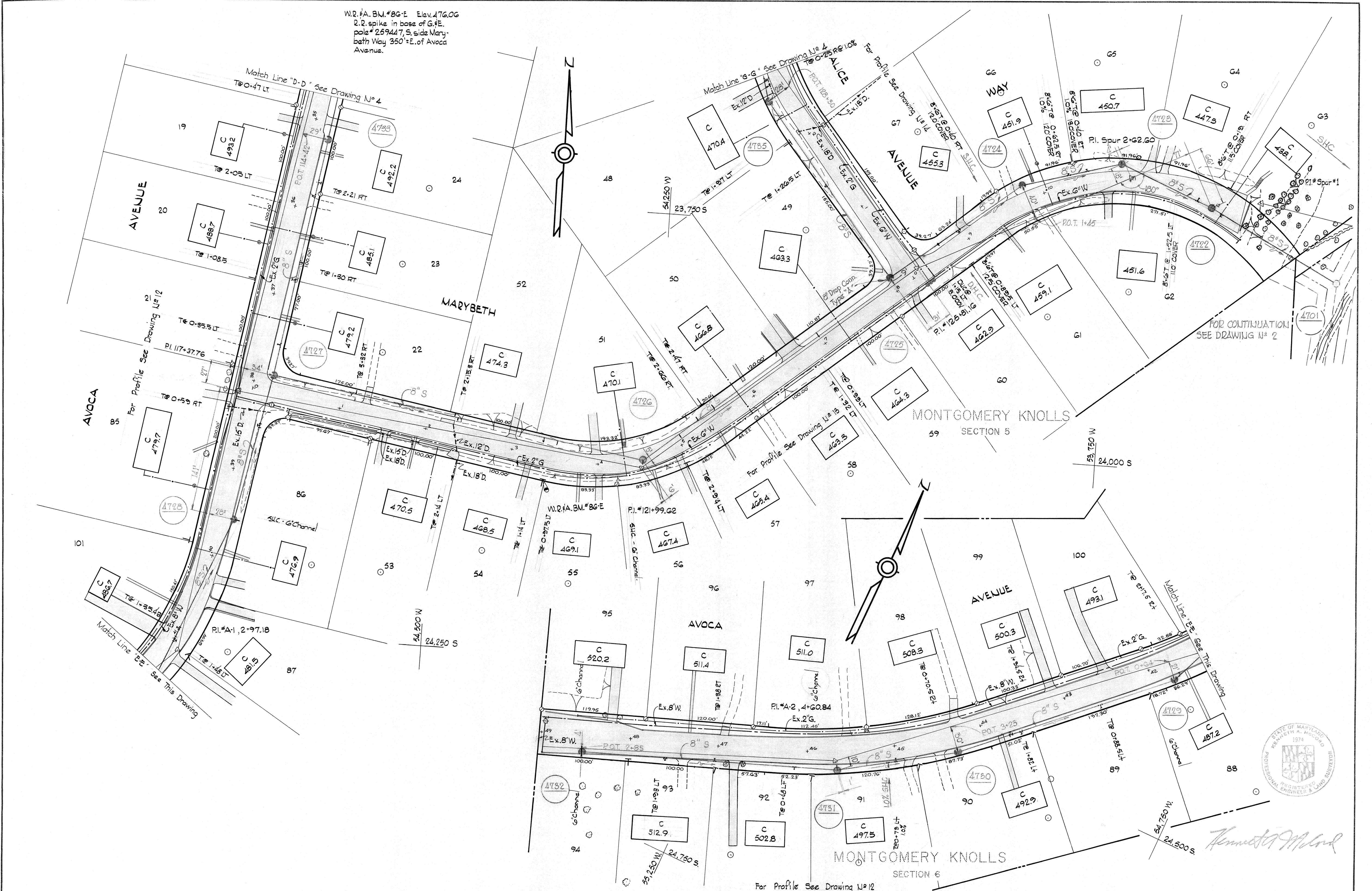
Kenneth A. McLeod

<b>WHITMAN, REQUARDT &amp; ASSOCIATES</b> ENGINEERS 1304 ST. PAUL ST. BALTIMORE, MARYLAND	<b>HOWARD COUNTY METROPOLITAN COMMISSION</b> DATE <u>5-6-70</u> <u>W O McLeod</u> CHIEF ENGINEER	<b>CONTRACT NO. 302-S</b>	<b>PLAN OF SEWER MAINS</b>	<b>ELECTION DISTRICT ELLICOTT CITY No. 2</b>	<b>CONTRACT No. 302-S</b> <b>DRAWING NO. 4 OF 16</b> <b>SCALE 1" = 50'</b>
--	--	---------------------------	----------------------------	--	--

Oct 7 1971 FB# 2188, 2204, 4329

WS 302-S/4

W.R. & A. B.M. #86-E Elev. 476.06  
 R.R. spike in base of G. & E.  
 pole # 259447, S. side Mary-  
 beth Way 350' E. of Avoca  
 Avenue.

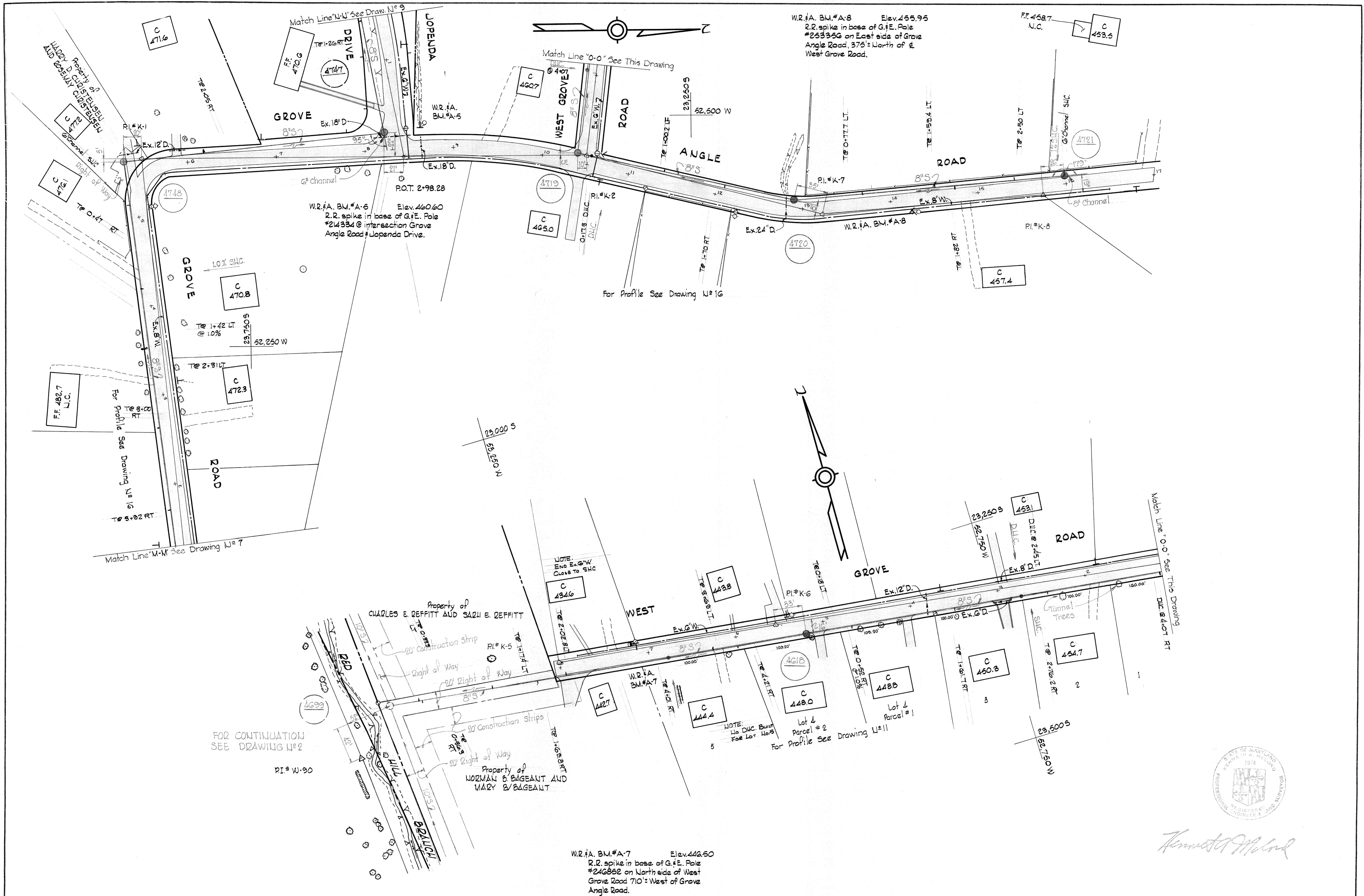


WHITMAN, REQUARDT & ASSOCIATES ENGINEERS 1304 ST. PAUL ST. BALTIMORE, MARYLAND	HOWARD COUNTY METROPOLITAN COMMISSION DATE 5-6-70 <i>W O Falub</i> CHIEF ENGINEER	CONTRACT NO. 302-S	PLAN OF SEWER MAINS	ELECTION DISTRICT ELLICOTT CITY No. 2	Contract No. 302-S DRAWING NO. 5 OF 16 SCALE 1"=50' 24x30 36 24x36 37 24x36 37
---	---	--------------------	------------------------	--	---

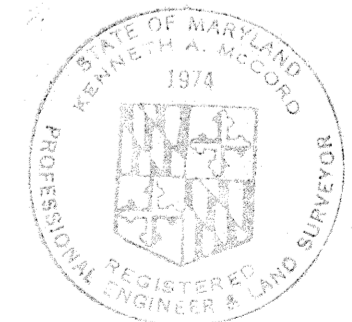
W. O. GIBS-2

38 BUILT Oct 7, 1971 P.B.# 2204, 3011, 3008, 3026

WS 302-S/5



WS 302-S/G

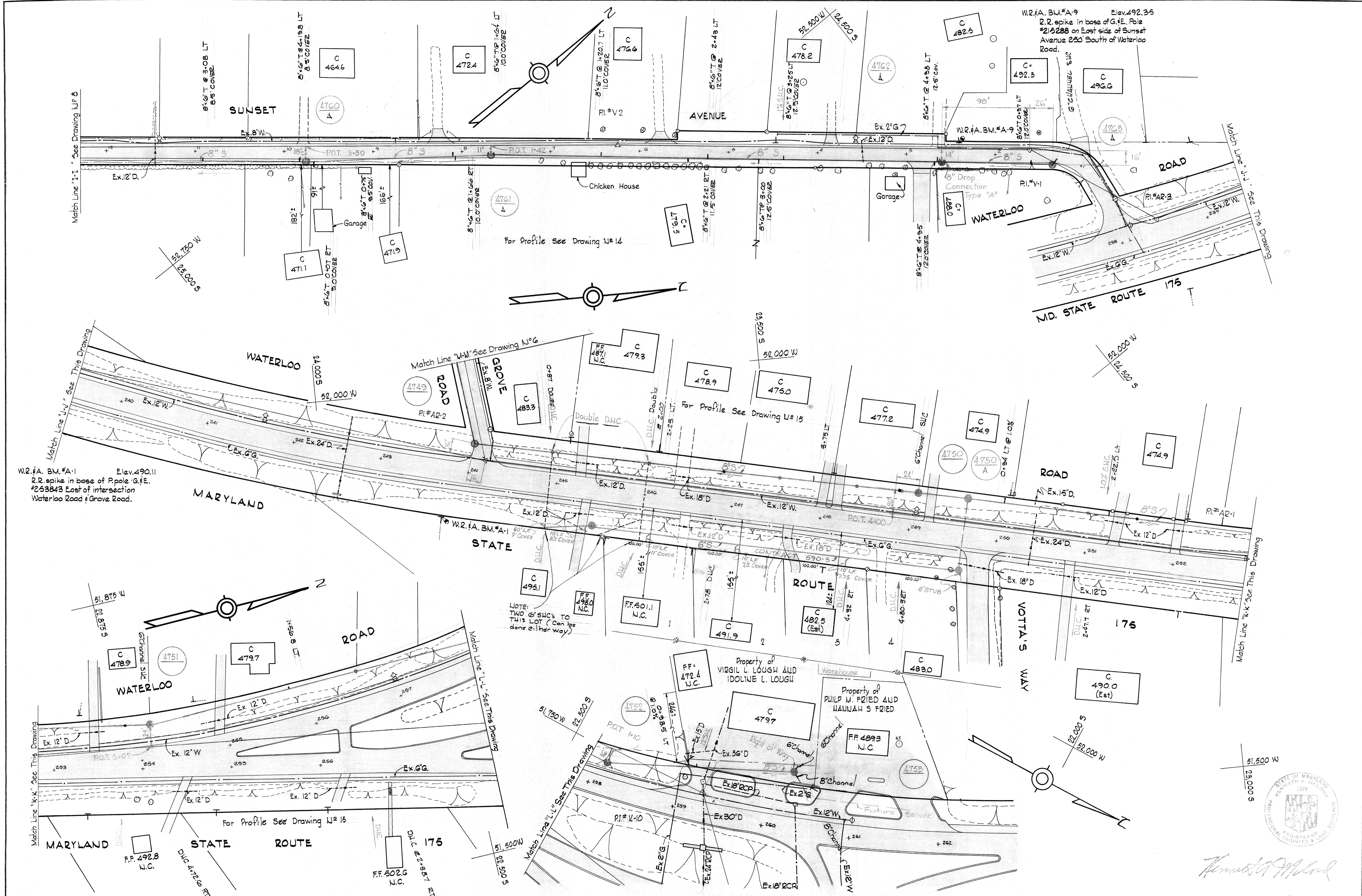


*Kenneth H. Leonard*

WHITMAN, REQUARDT & ASSOCIATES ENGINEERS 1304 ST. PAUL ST. BALTIMORE, MARYLAND	HOWARD COUNTY METROPOLITAN COMMISSION DATE: 5-6-70 <i>W O Falbert</i> CHIEF ENGINEER	CONTRACT NO. 302-S	PLAN OF SEWER MAINS	ELECTION DISTRICT ELLICOTT CITY No.2	Contract No. 302-S
					DRAWING NO. 6 OF 16

W. O. GIBBS-2

CAS BUILT | FB.# 800B, 302G, 4329

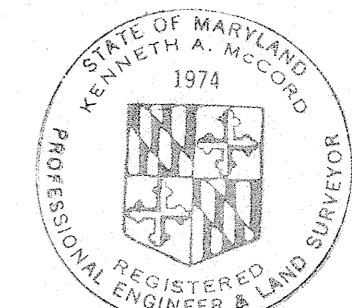


WS 302-57

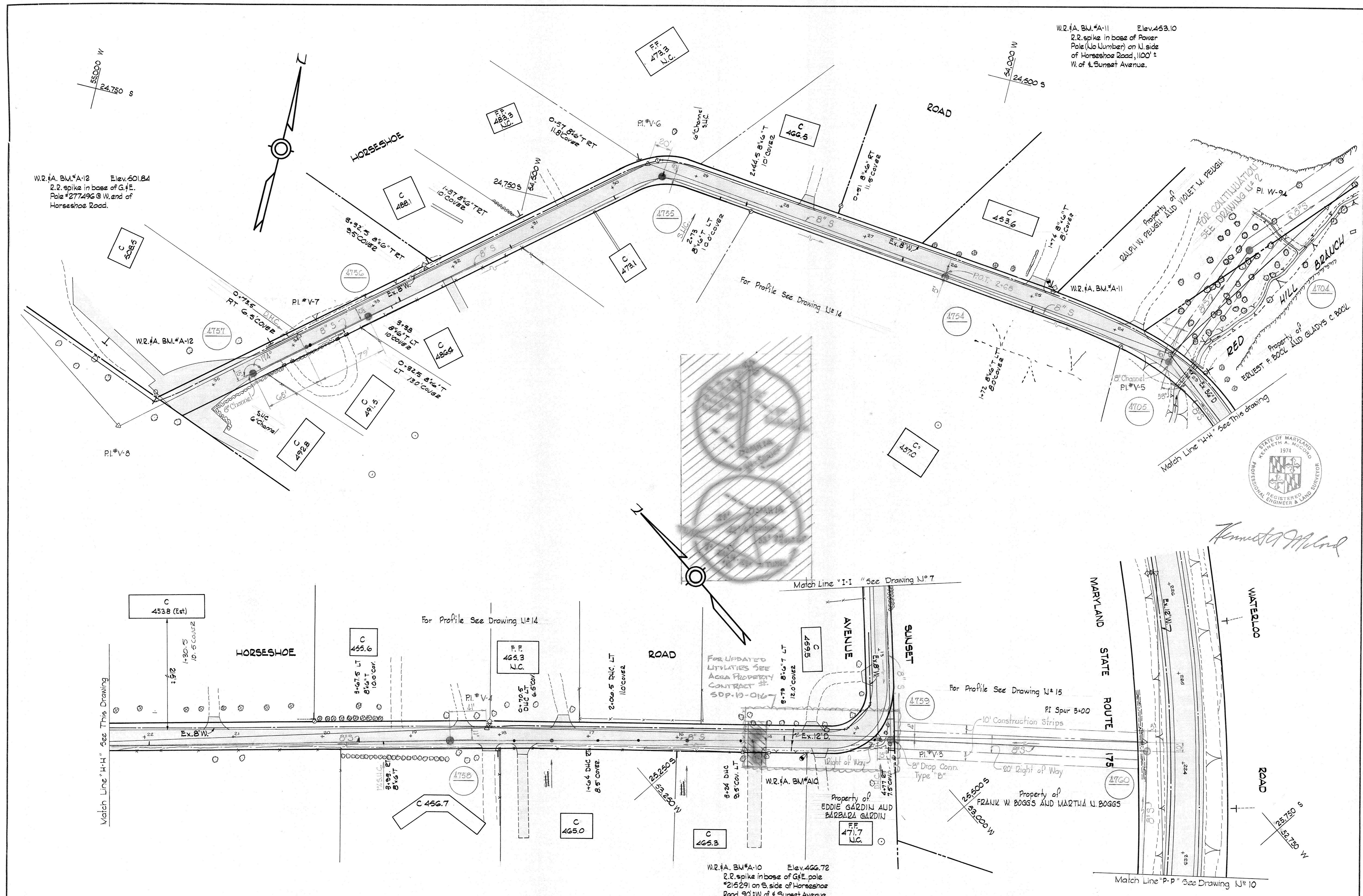
WHITMAN, REQUARDT & ASSOCIATES ENGINEERS 1304 ST. PAUL ST. BALTIMORE, MARYLAND	HOWARD COUNTY METROPOLITAN COMMISSION DATE: 5-7-70 W.O. Falbert CHIEF ENGINEER	CONTRACT NO. 302-S	PLAN OF SEWER MAINS	ELECTION DISTRICT ELLICOTT CITY No. 2	Contract No. 302-S DRAWING NO. 7 OF 16 SCALE 1" = 50' 20 SW 32 25 SW 36 28 SW 33 24 SW 35 25 SW 38
---	---	--------------------	------------------------	--	---

W.R. & A. BM. #A-11 Elev. 453.10  
R.R. spike in base of Power Pole (No Number) on N. side of Horseshoe Road, 1100' W. of S. Sunset Avenue.

W.R. & A. BM. #A-12 Elev. 501.84  
R.R. spike in base of G.F.E. Pole #277496 @ W. end of Horseshoe Road.



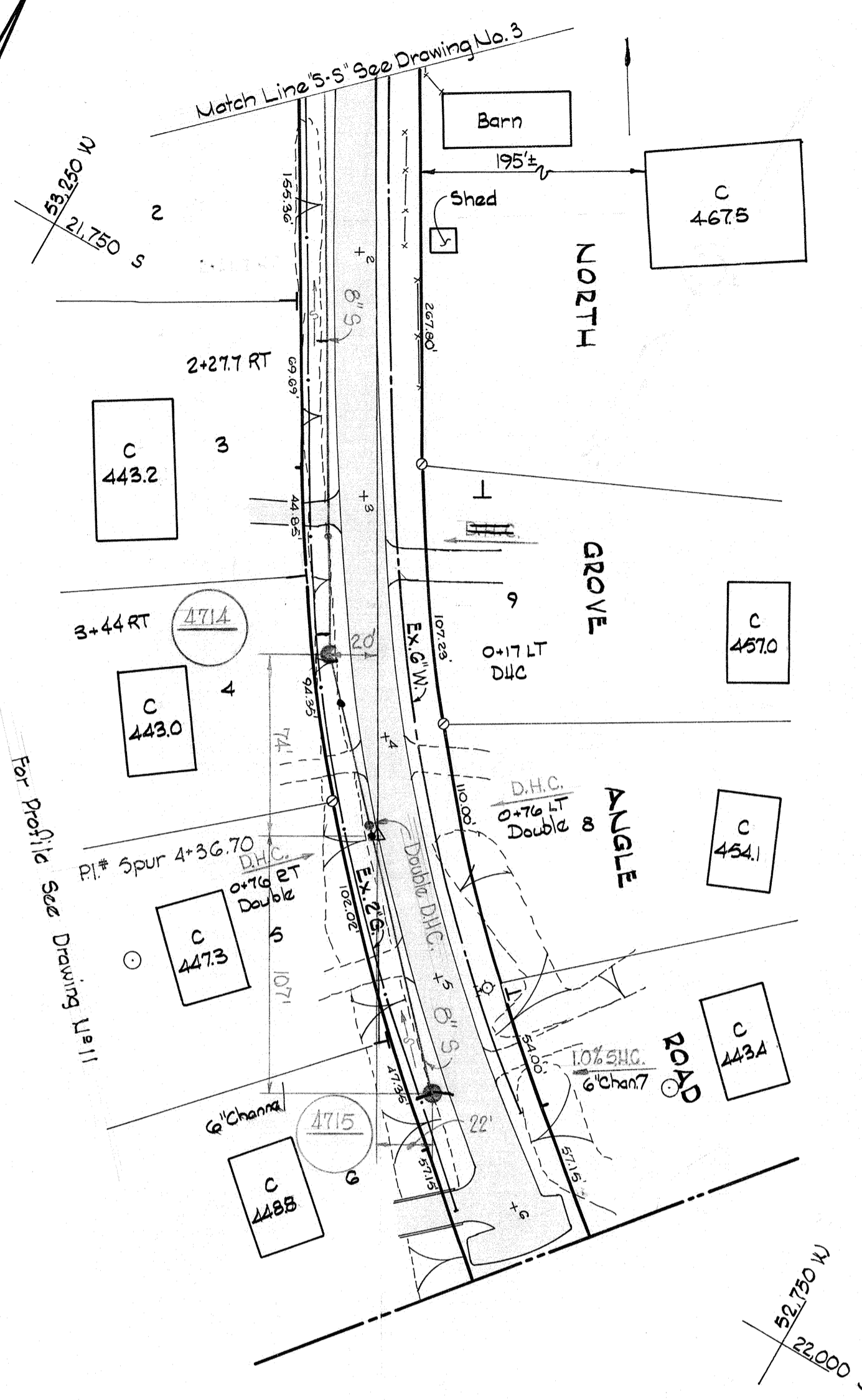
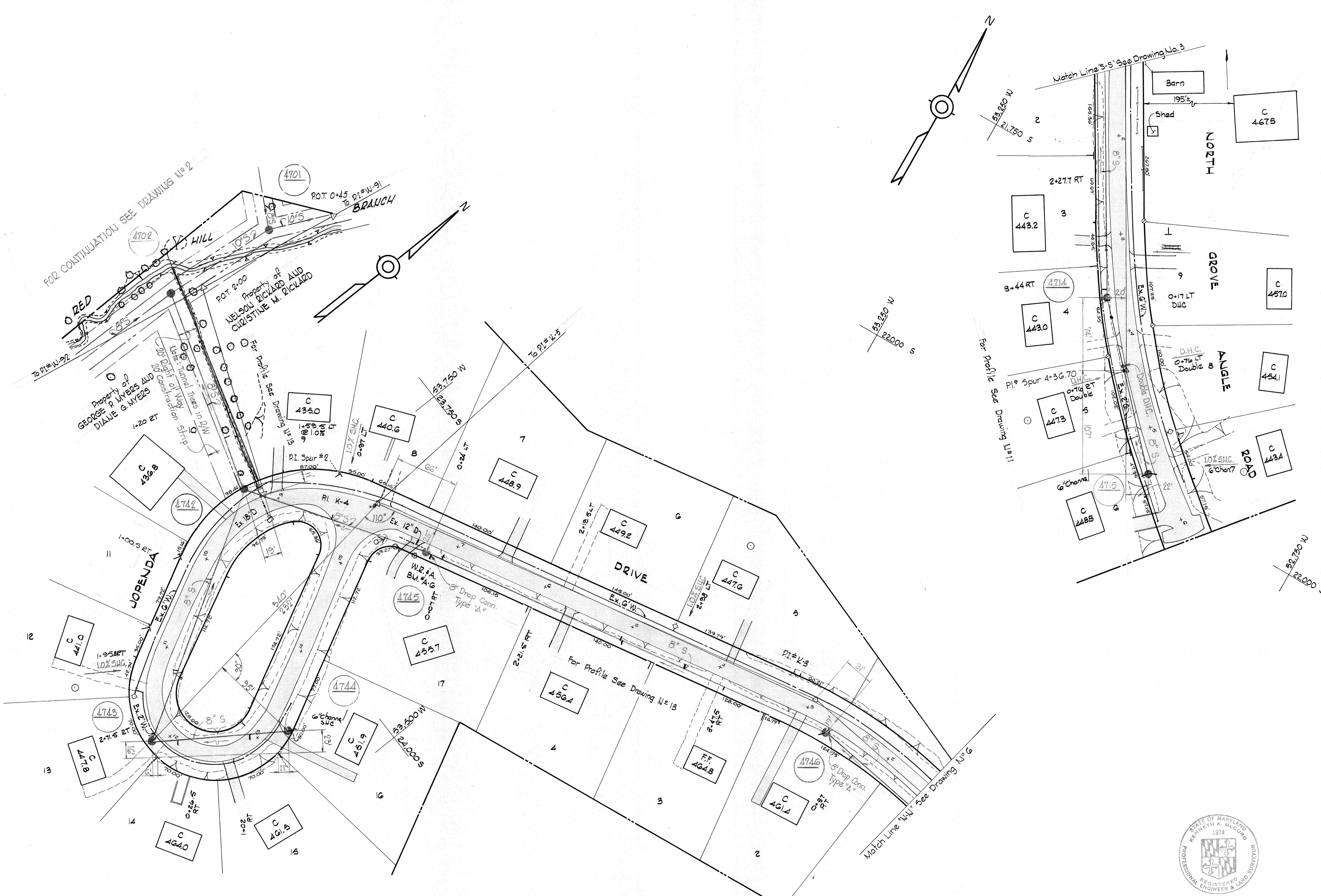
*Kenneth A. Alford*



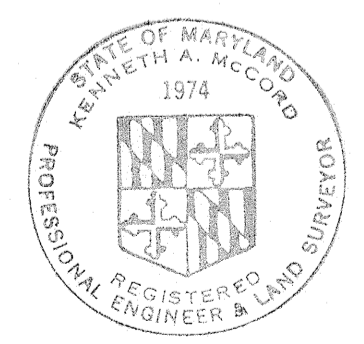
WS 302-5/8

WHITMAN, REQUARDT & ASSOCIATES ENGINEERS 1304 ST. PAUL ST. BALTIMORE, MARYLAND	HOWARD COUNTY METROPOLITAN COMMISSION DATE <u>5-6-70</u> <i>W O Alford</i> CHIEF ENGINEER	CONTRACT NO. 302-S	PLAN OF SEWER MAINS	ELECTION DISTRICT ELLICOTT CITY No. 2	DRAWING NO. <u>8</u> OF <u>16</u>	SCALE
					26 SW 36 25 SW 36 25 SW 37 26 SW 37	





W2 & A, BU # A-G Elev. 461.50  
 2.R. spike in base of C & P  
 pole # 5 @ Southeast Corner  
 Intersection of Lopena  
 Drive & Lopena Drive.



*Kenneth A. McCord*

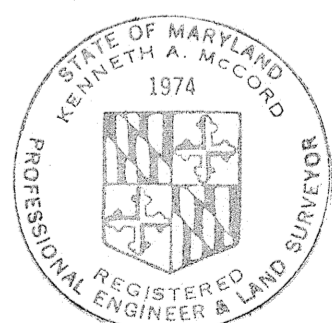
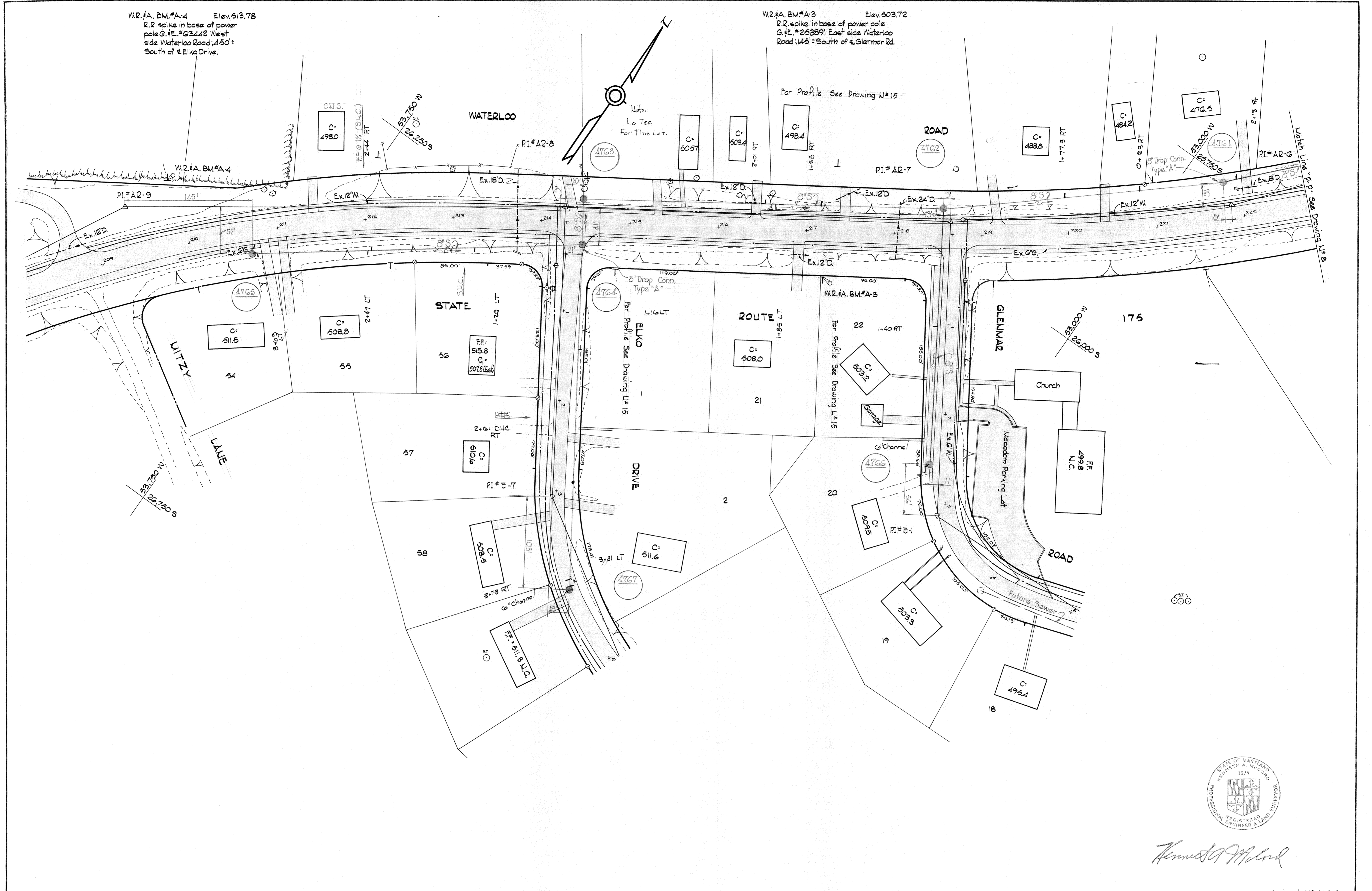
WHITMAN, REQUARDT & ASSOCIATES ENGINEERS 1304 ST. PAUL ST. BALTIMORE, MARYLAND	HOWARD COUNTY METROPOLITAN COMMISSION DATE: 5-6-70 W O Falvat CHIEF ENGINEER	CONTRACT NO. 302-S	PLAN OF SEWER MAINS	ELECTION DISTRICT ELLICOTT CITY No. 2	Contract No. 302-S DRAWING NO. 9 OF 16 SCALE 1" = 50' 23 SW 36 24 SW 36 22 SW 36 23 SW 36
---	---	--------------------	------------------------	--	---

W. O. GIBB-2

ASUMI Oct 7, 1971 F.B. # 3084, 3008, 4329, 3026

MS 302-S/9

WS 302-S/10



*Kenneth A. McCord*

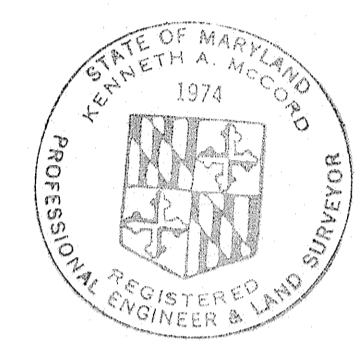
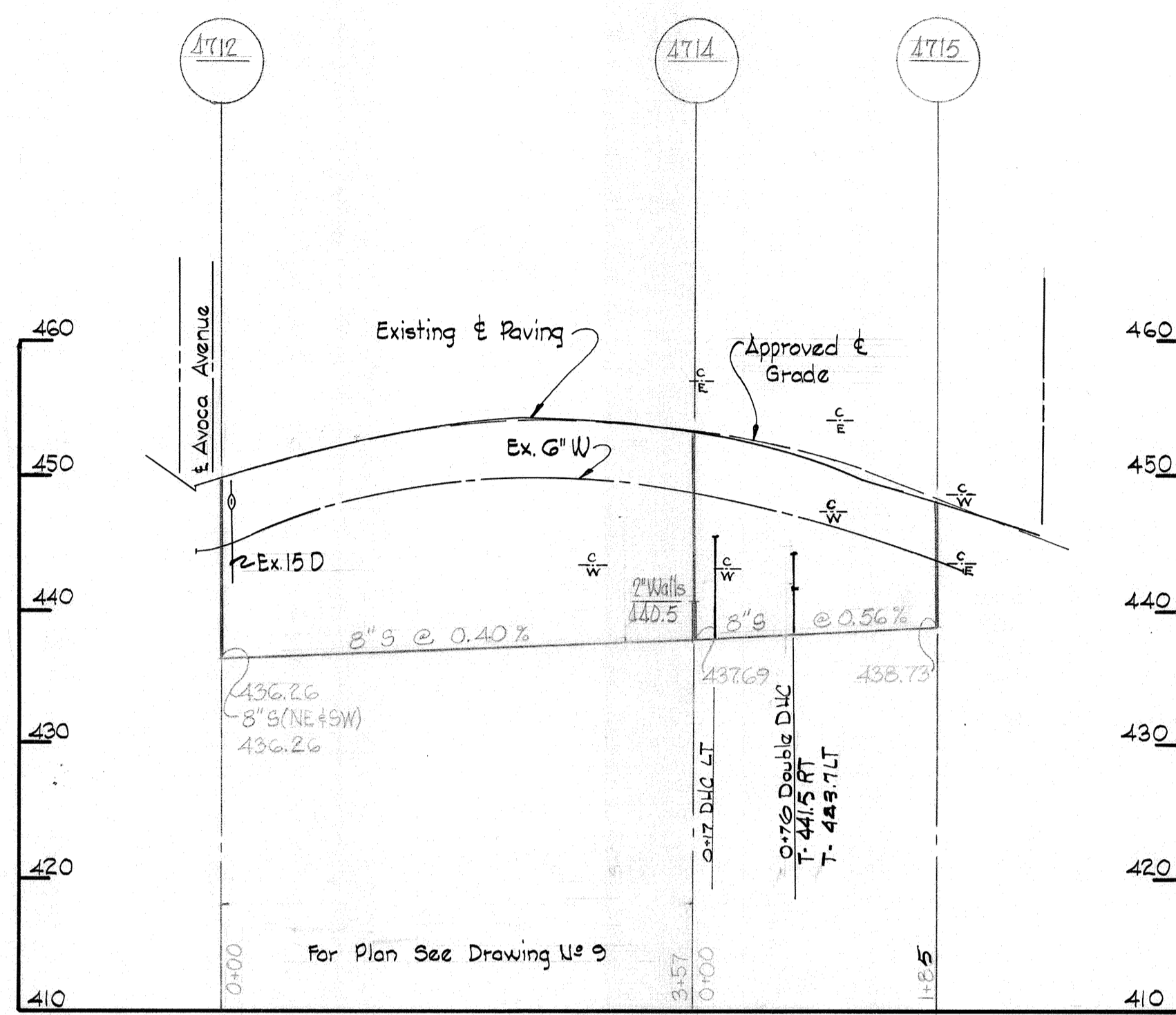
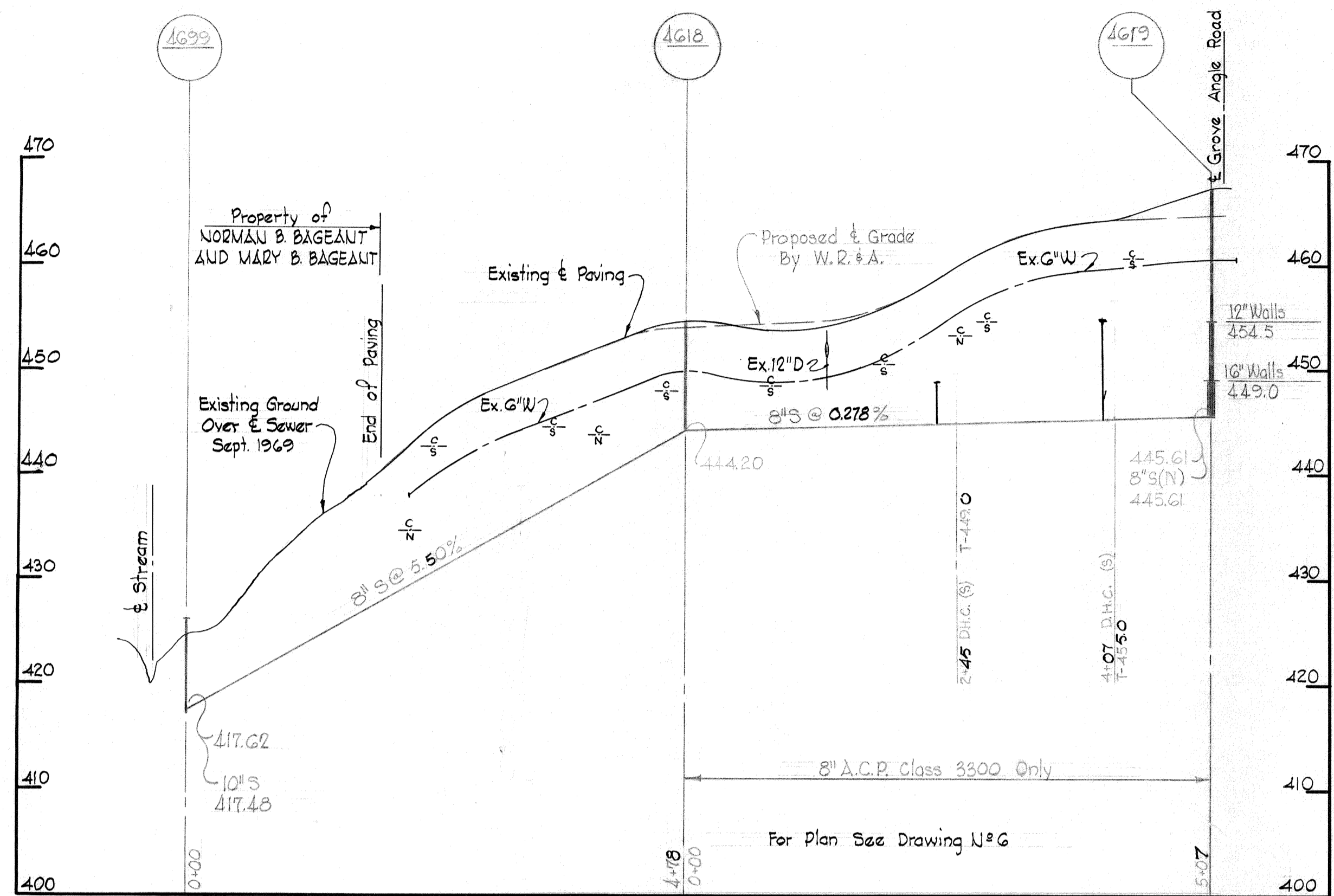
WHITMAN, REQUARDT & ASSOCIATES ENGINEERS 1304 ST. PAUL ST. BALTIMORE, MARYLAND	HOWARD COUNTY METROPOLITAN COMMISSION DATE: 5-6-70 <i>W. O. F. Albert</i> CHIEF ENGINEER	CONTRACT NO. 302-S	PLAN OF SEWER MAINS	ELECTION DISTRICT ELLICOTT CITY No. 2	Contract No. 302-S DRAWING NO. 10 OF 16 SCALE: 2" SW 36, 2" SW 36
---	---	--------------------	------------------------	--	---

W. O. G. 85-2

AS BUILT Oct 7 1971 FB# 3035, 3038, 3026

WEST GROVE ROAD

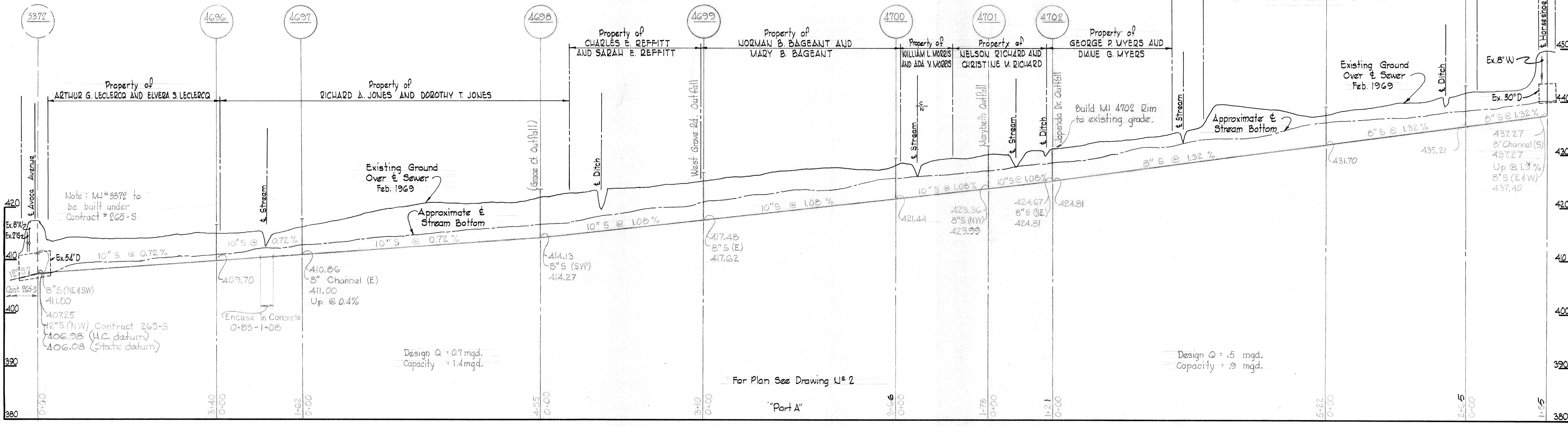
NORTH GROVE ANGLE ROAD



*Kenneth A. McCord*

OUTFALL

SEWER



All Sewer Pipes A.C.P. Class 2400

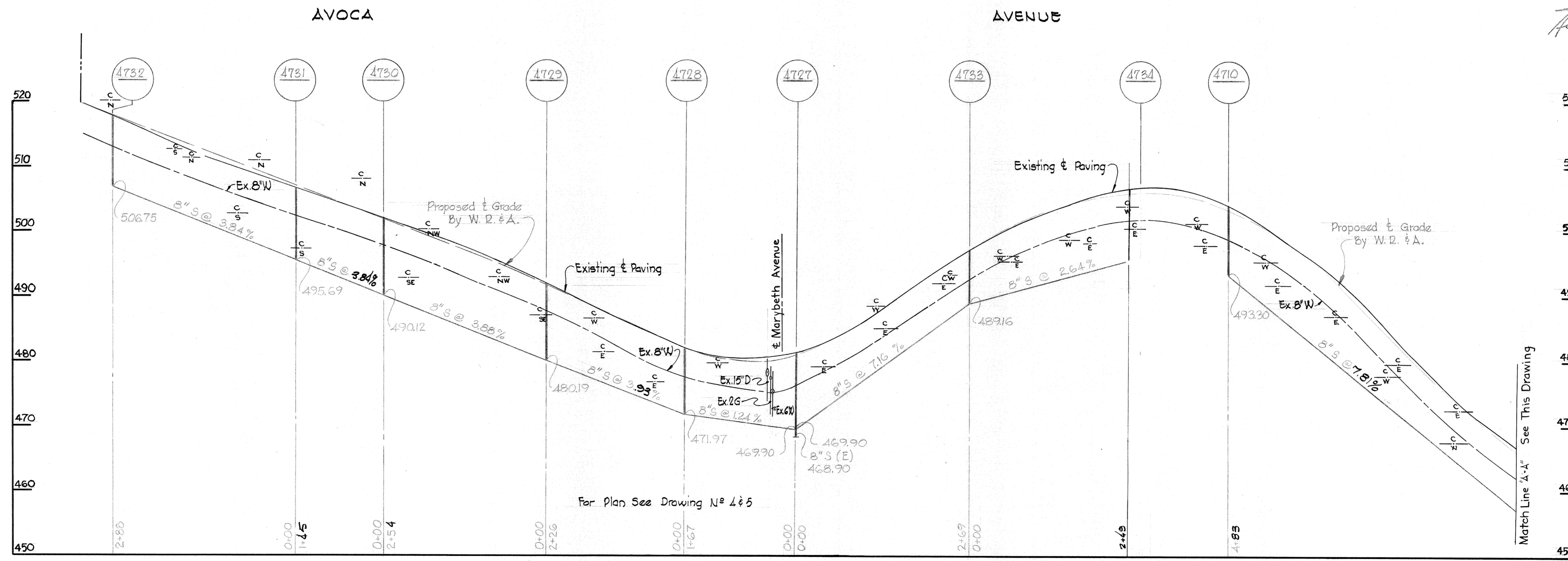
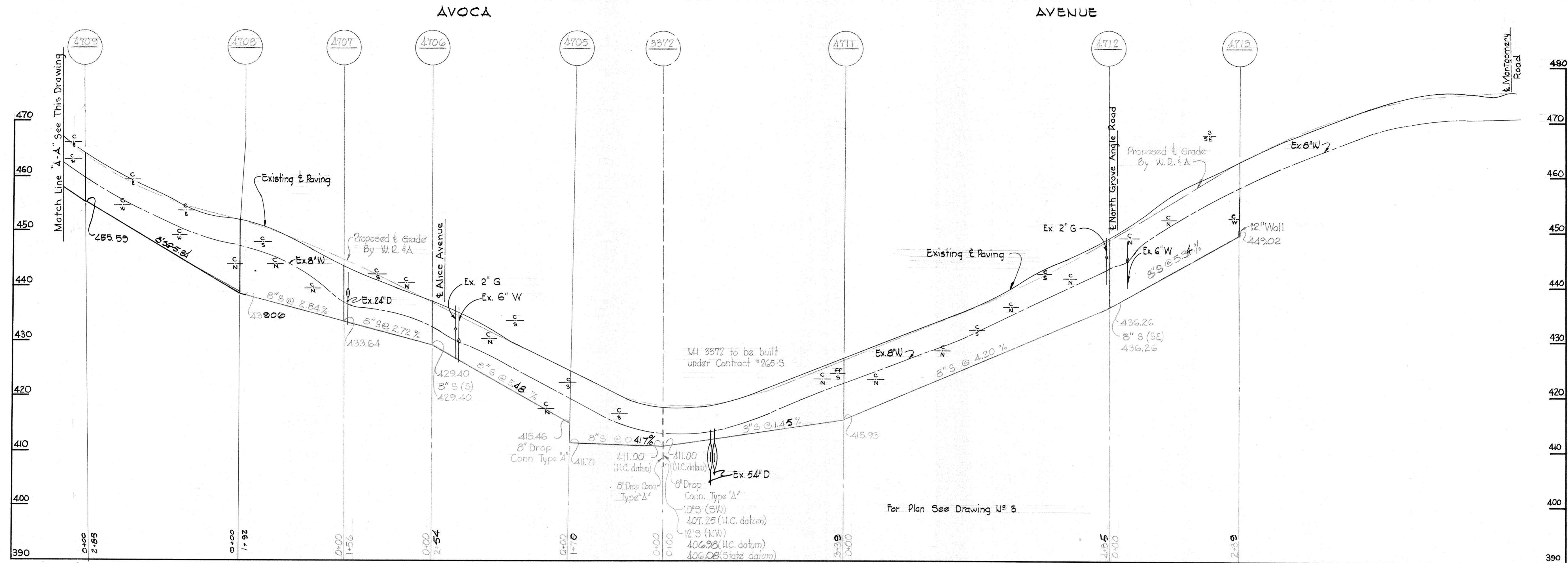
Contract No. 302-S

WHITMAN, REQUARDT & ASSOCIATES ENGINEERS 1304 ST. PAUL ST. BALTIMORE, MARYLAND	HOWARD COUNTY METROPOLITAN COMMISSION DATE 5-6-70 <i>W O Filbert</i> CHIEF ENGINEER	CONTRACT NO. 302-S	PROFILES OF SEWER MAINS	ELECTION DISTRICT ELLICOTT CITY No. 2	DRAWING NO. 11 OF 16 SCALE H:V = 100:10 V:1"=10'
---	---	--------------------	----------------------------	--	--

W. O. 6185-2

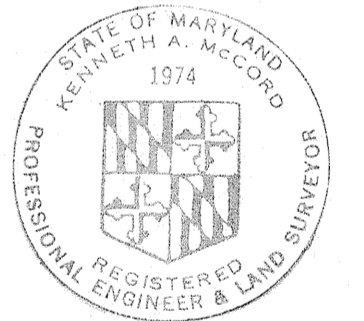
BUILT Oct 7, 1971

WS 302-S/11



All Sewer pipe - A.C.P. Class 2400

*Handwritten signature*

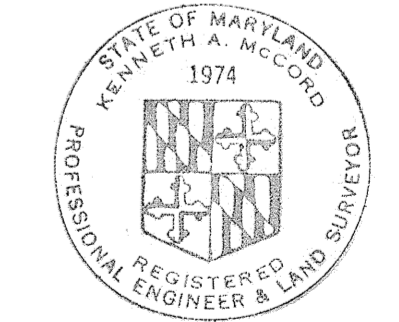
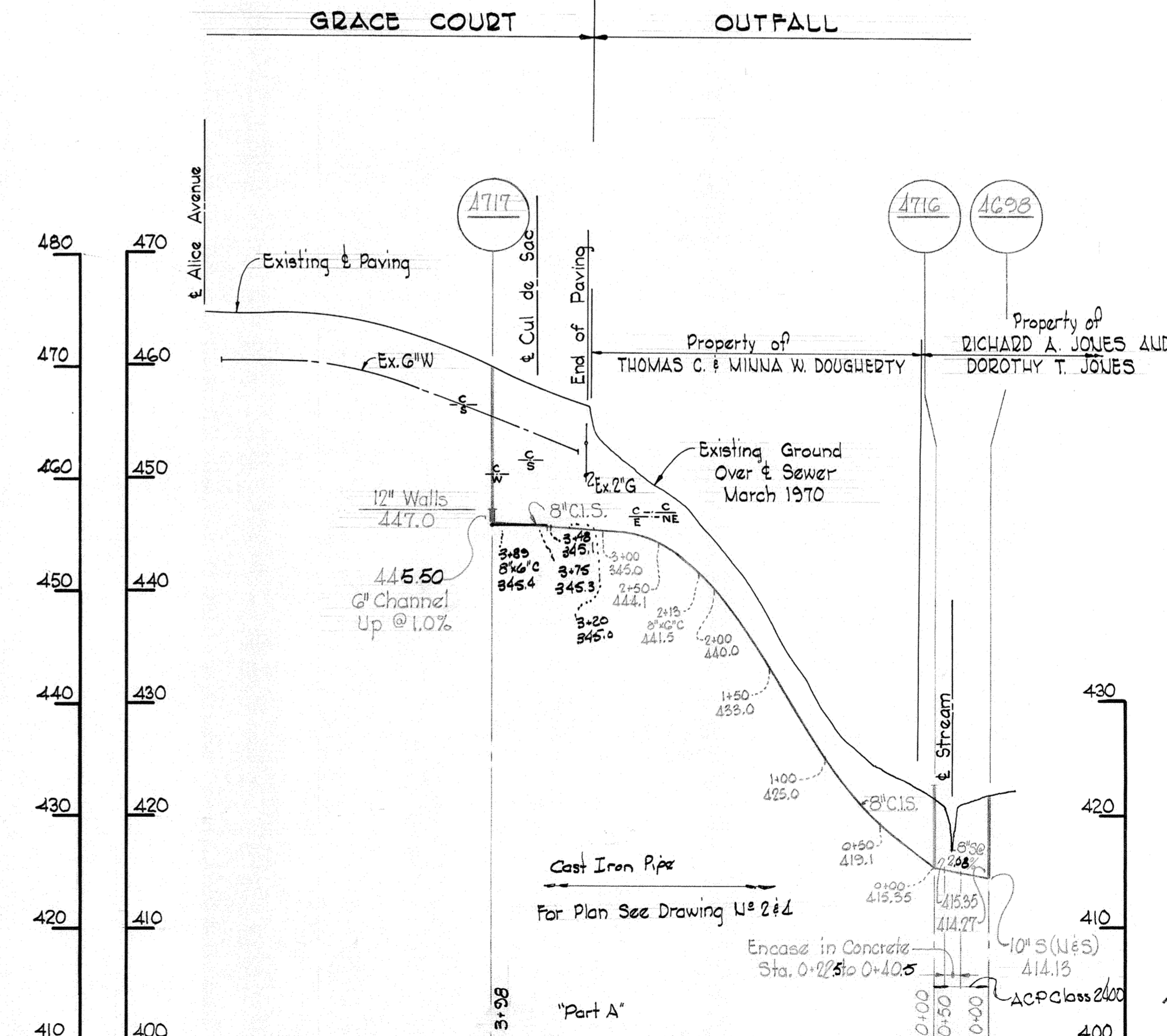
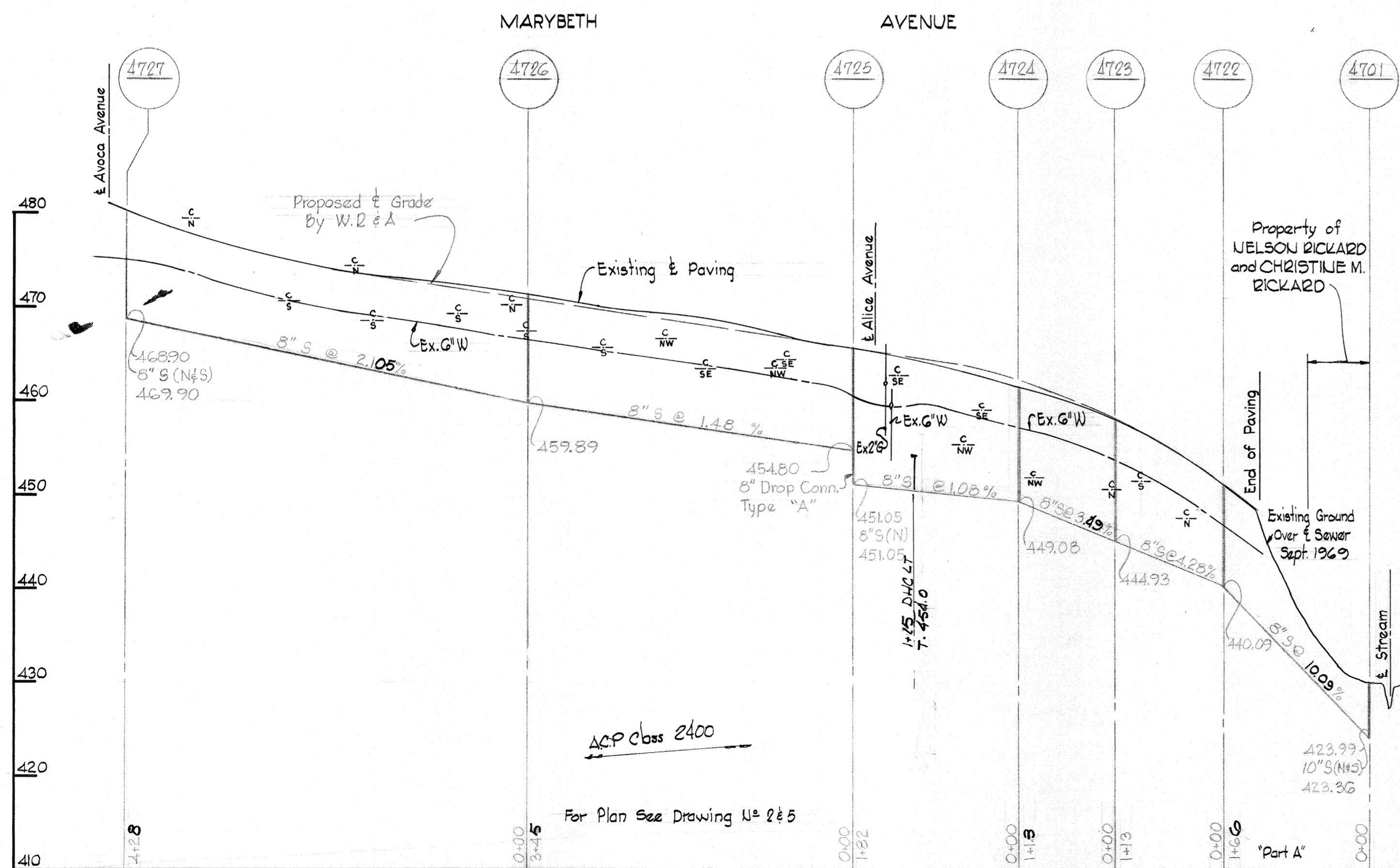
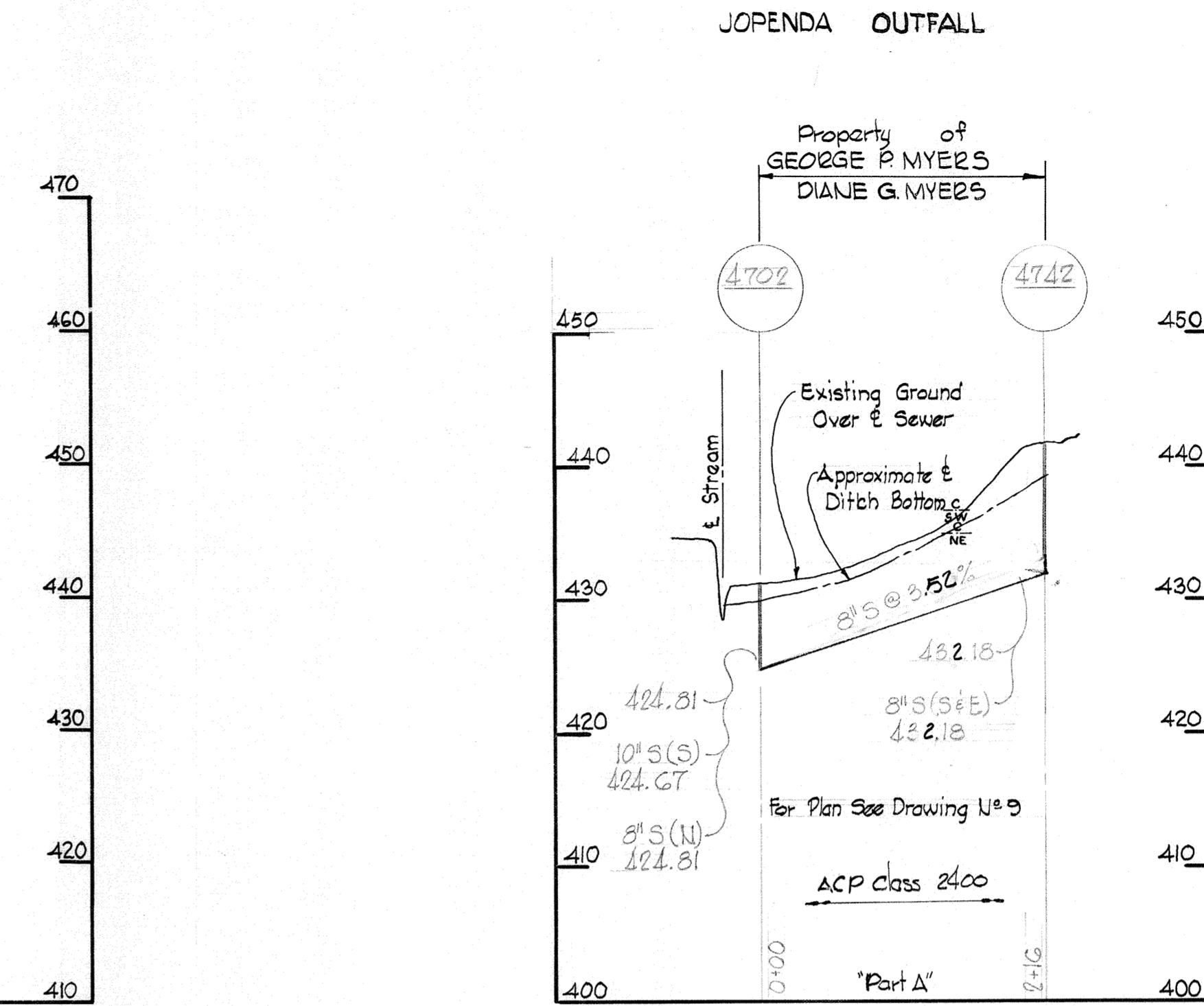
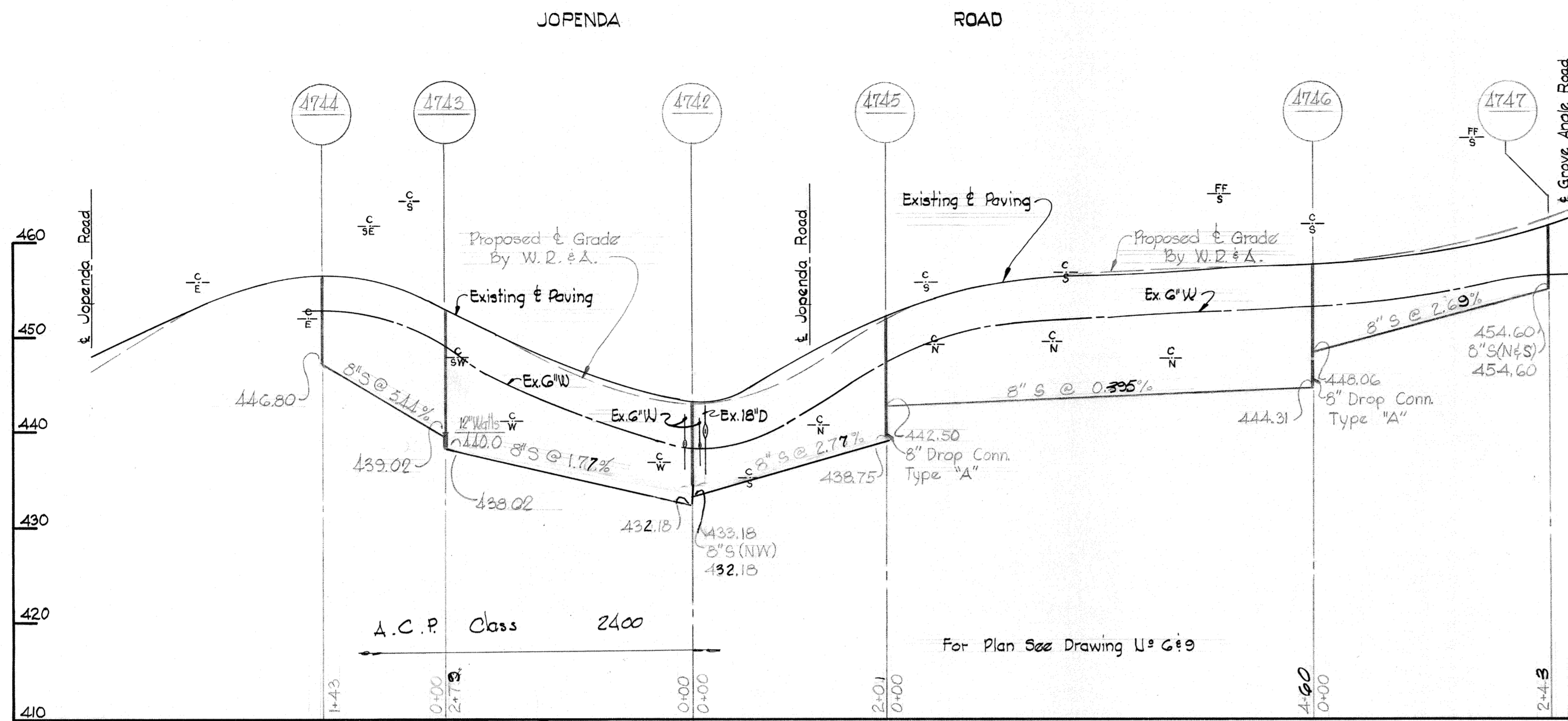


WHITMAN, REQUARDT & ASSOCIATES ENGINEERS 1304 ST. PAUL ST. BALTIMORE, MARYLAND	HOWARD COUNTY METROPOLITAN COMMISSION DATE: 5.6.70 W. O. Fallick CHIEF ENGINEER	CONTRACT NO. 302-S	PROFILES OF SEWER MAINS	ELECTION DISTRICT ELLICOTT CITY No. 2	DRAWING NO. 12	SCALE H:1"=100' V:1"=10'
					OF 16	Contract No. 302-S

W. O. G. 85-2

Oct 7, 1971

WS 302-S/12



*Kenneth J. McLeod*

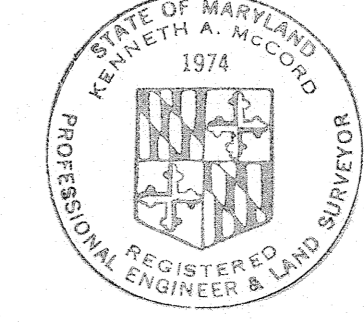
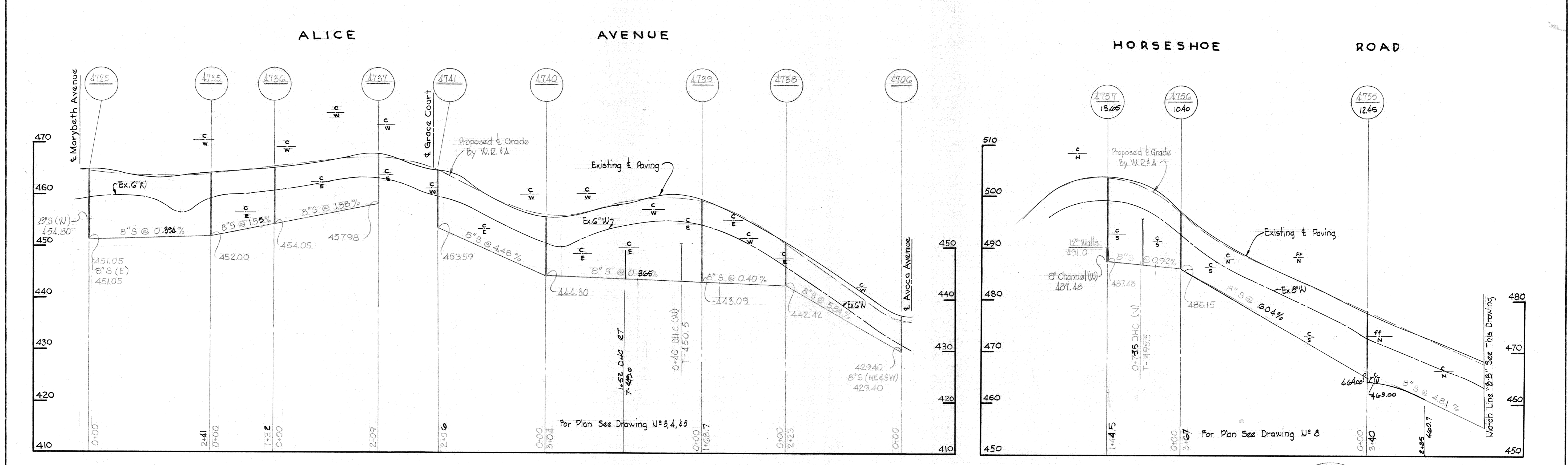
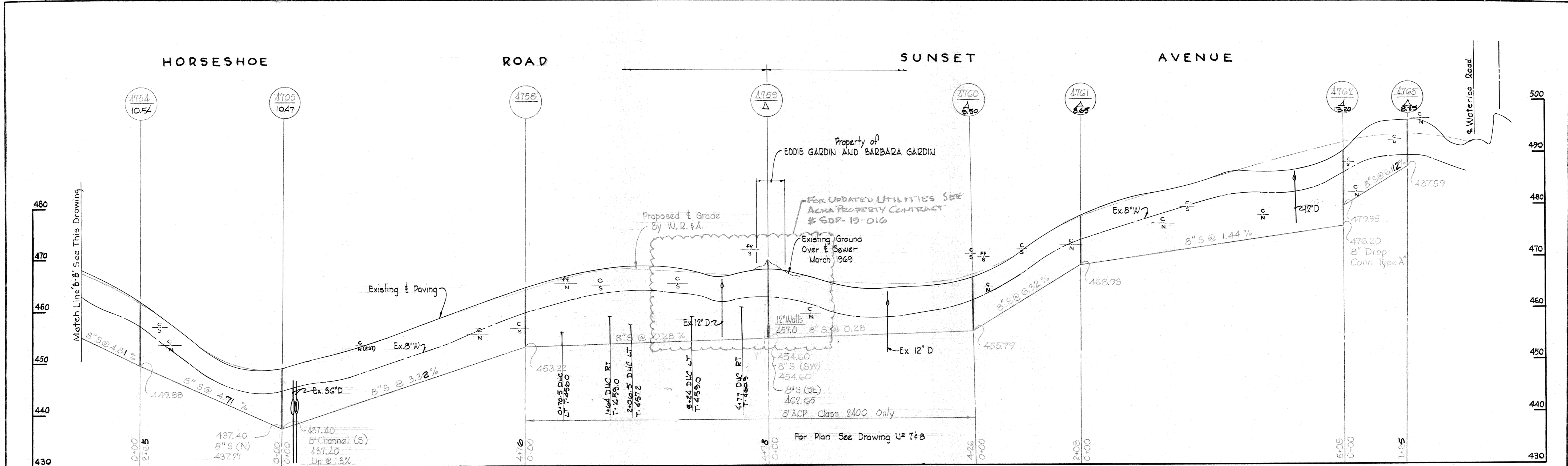
Contract U# 302-S

WHITMAN, REQUARDT & ASSOCIATES ENGINEERS 1304 ST. PAUL ST. BALTIMORE, MARYLAND	HOWARD COUNTY METROPOLITAN COMMISSION DATE: 5-6-70 W. O. Gilbert CHIEF ENGINEER	CONTRACT NO. 302-S	PROFILES OF SEWER MAINS	ELECTION DISTRICT ELLICOTT CITY No. 2	DRAWING NO. 13 OF 16 SCALE H:1"=100' V:1"=10'
---	--	--------------------	----------------------------	--	--

W. O. G185-2

WS 302-S/13

AS BUILT  
 2/13/71



*Kenneth A. Wood*

All Sewer ACP Class 2400

WHITMAN, REQUARDT & ASSOCIATES ENGINEERS 1304 ST. PAUL ST. BALTIMORE, MARYLAND	HOWARD COUNTY METROPOLITAN COMMISSION DATE <u>5-6-70</u> <u>W O Gilbert</u> CHIEF ENGINEER	CONTRACT NO. <u>302-S</u>	PROFILES OF SEWER MAINS	ELECTION DISTRICT ELLICOTT CITY No. 2	DRAWING NO. <u>14</u> OF <u>16</u> SCALE H:1"=100' V:1"=10' Contract No. 302-S
---	--	---------------------------	----------------------------	--	--

W. O. G185-2

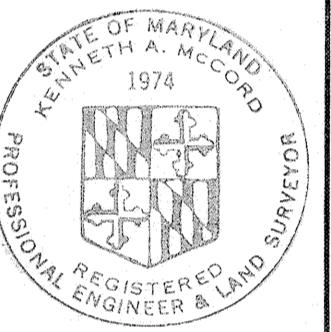
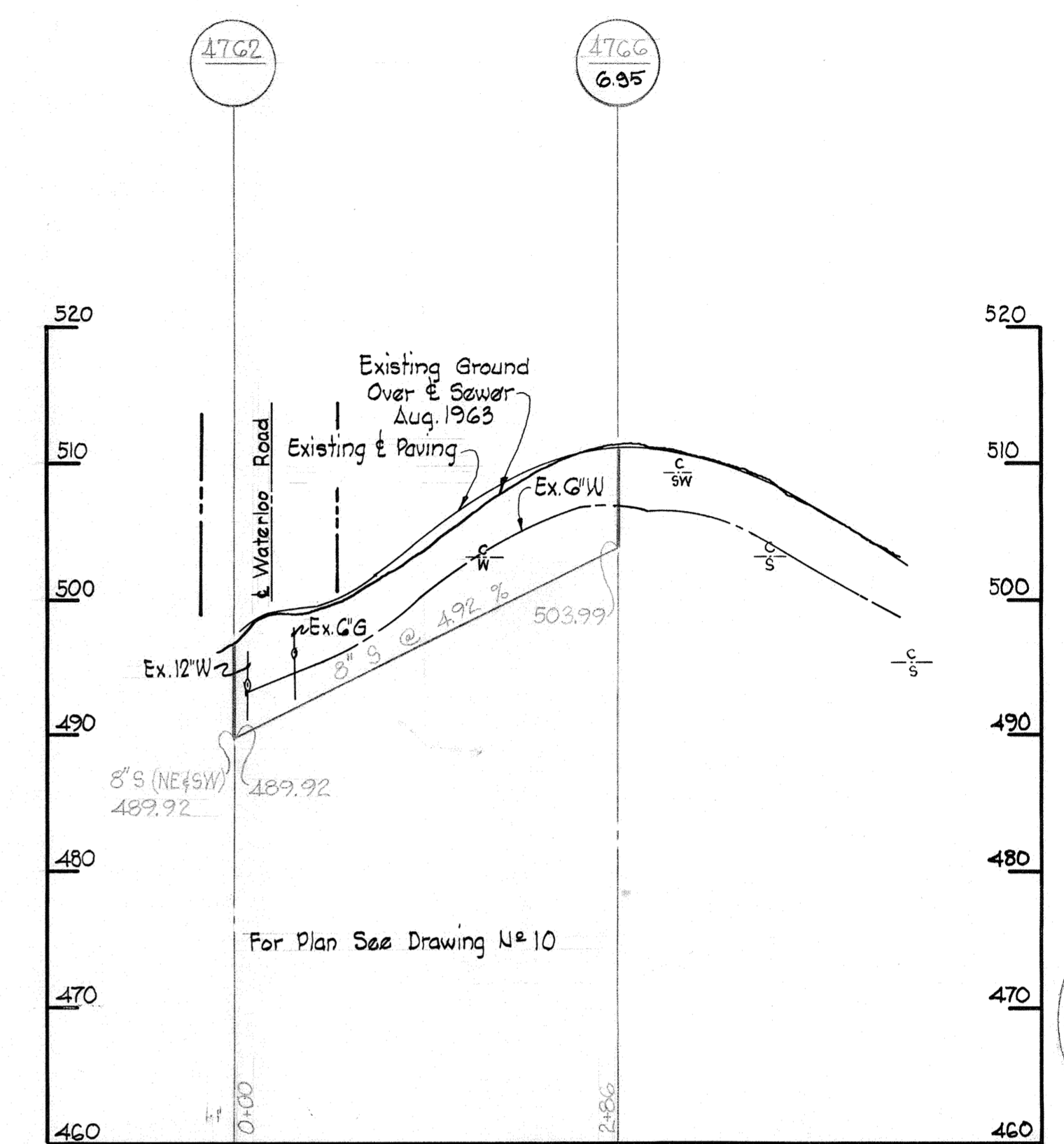
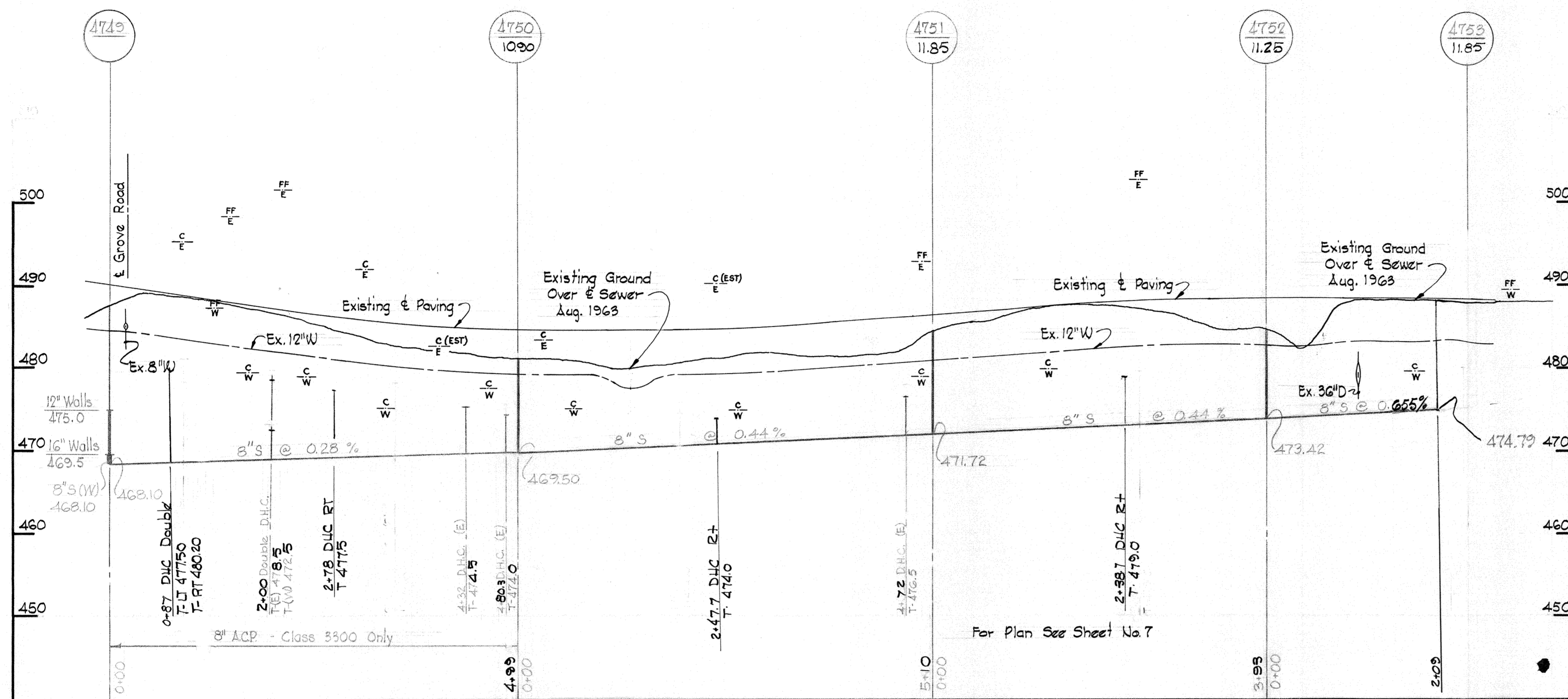
Oct 7, 1971

WS 302-S/14

WATERLOO ROAD

STATE ROUTE 175

GLENMAR ROAD



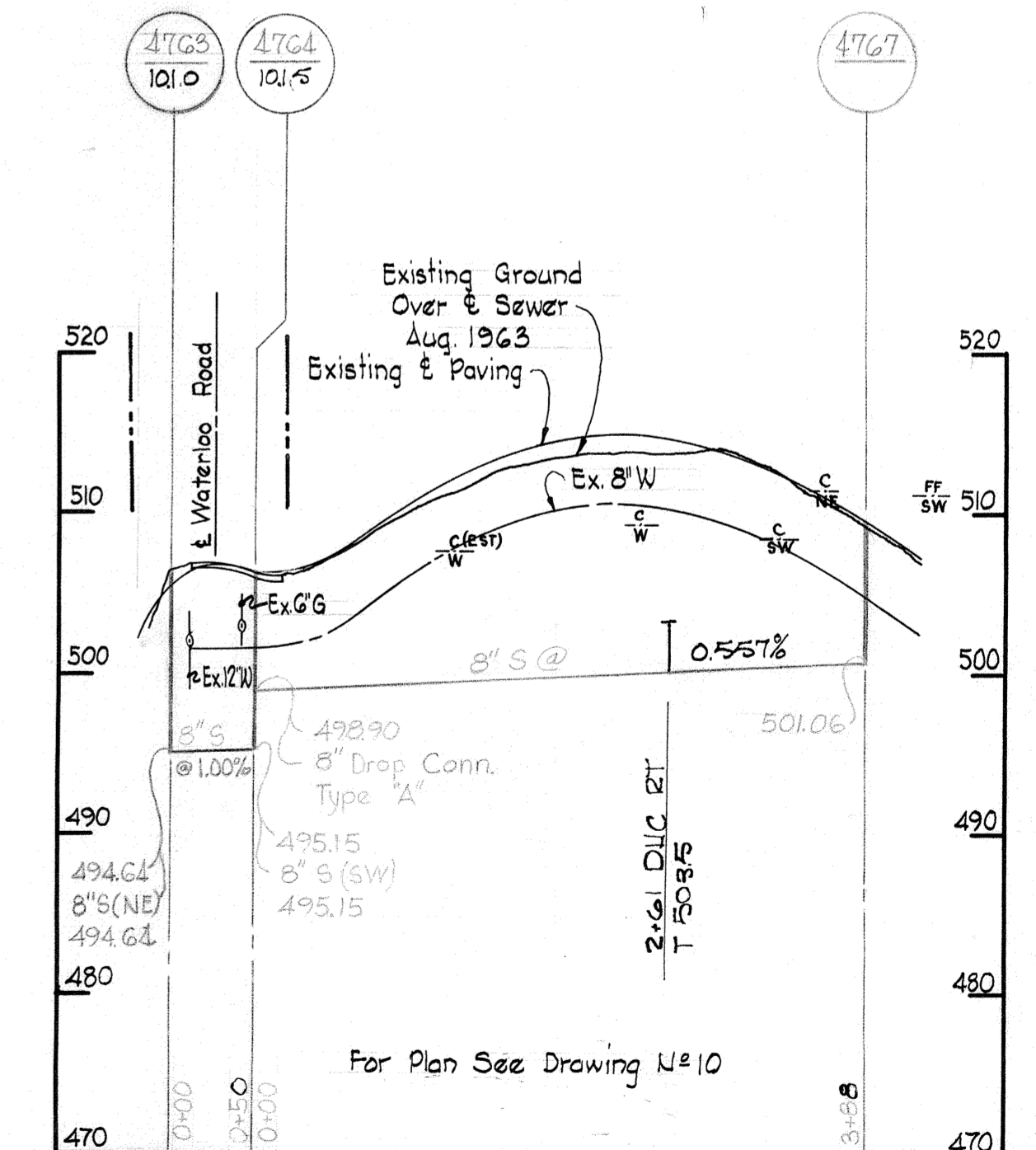
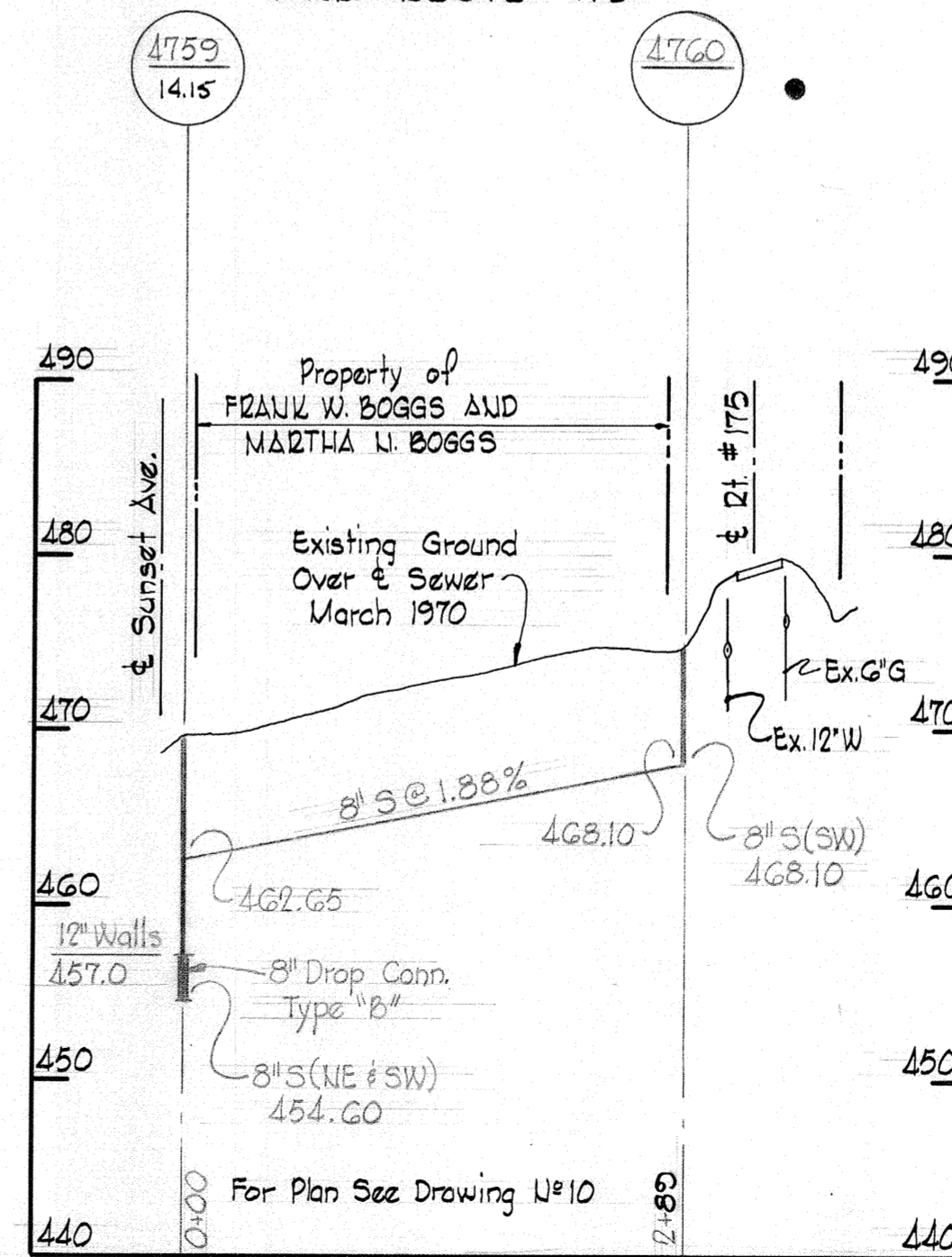
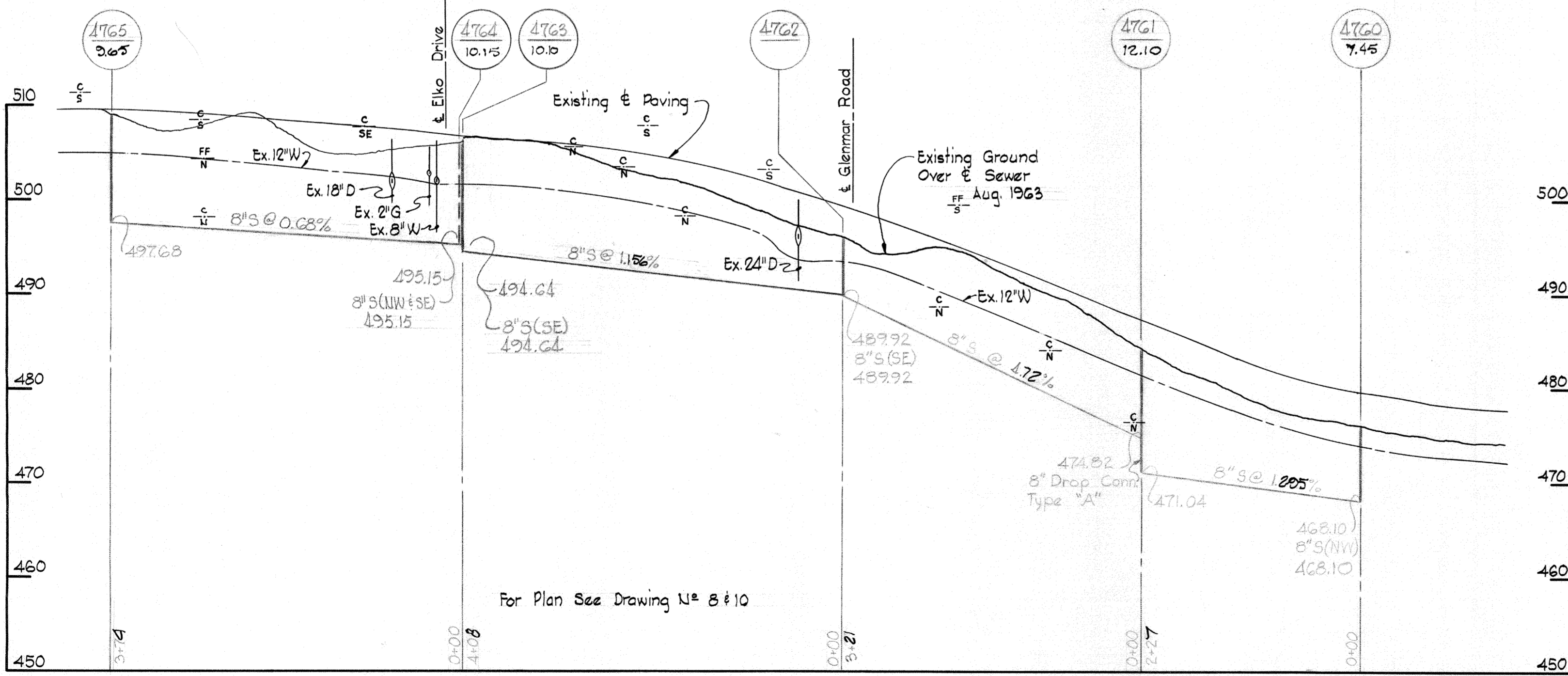
*Kenneth A. McLeod*  
 REGISTERED PROFESSIONAL ENGINEER & LAND SURVEYOR

WATERLOO ROAD

STATE ROUTE 175

OUTFALL BETWEEN SUNSET AVE. AND ROUTE # 175

ELKO DRIVE



All SEWER ACP Class 2400

Contract N# 302-S

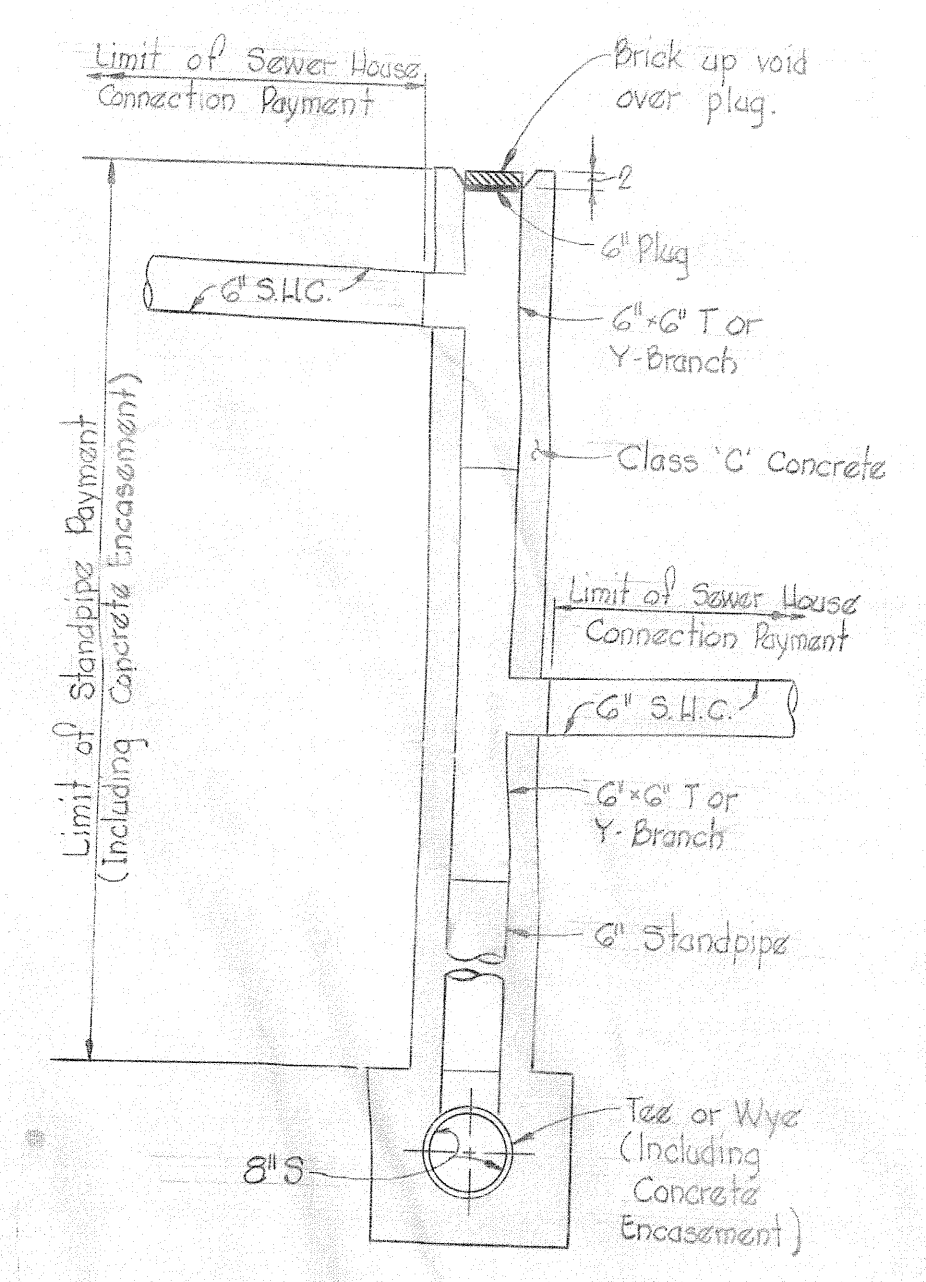
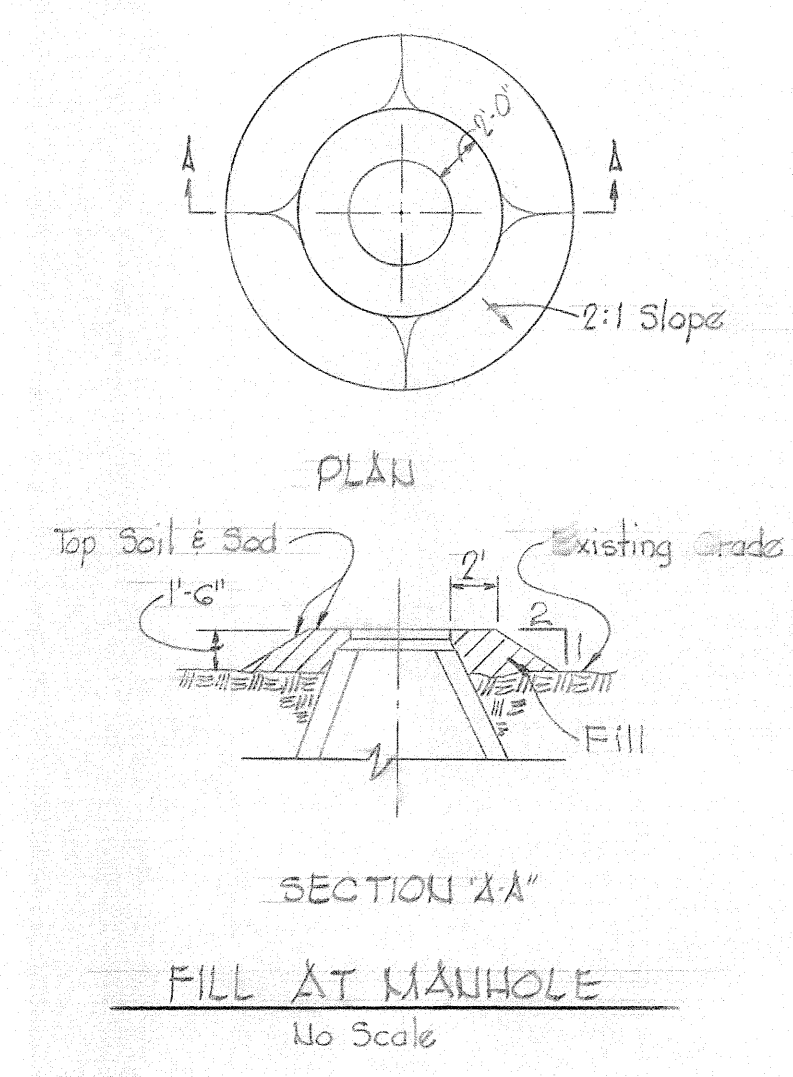
WHITMAN, REQUARDT & ASSOCIATES ENGINEERS 1304 ST. PAUL ST. BALTIMORE, MARYLAND	HOWARD COUNTY METROPOLITAN COMMISSION DATE <u>5-6-70</u> <u>W O Robert</u> CHIEF ENGINEER	CONTRACT NO. <u>302-S</u>	PROFILES OF SEWER MAINS	ELECTION DISTRICT ELLICOTT CITY No. 2	DRAWING NO. <u>15</u> OF <u>16</u> SCALE H:1"=100' V:1"=10'
---	---	---------------------------	----------------------------	--	--

W. O. GIBBS-2

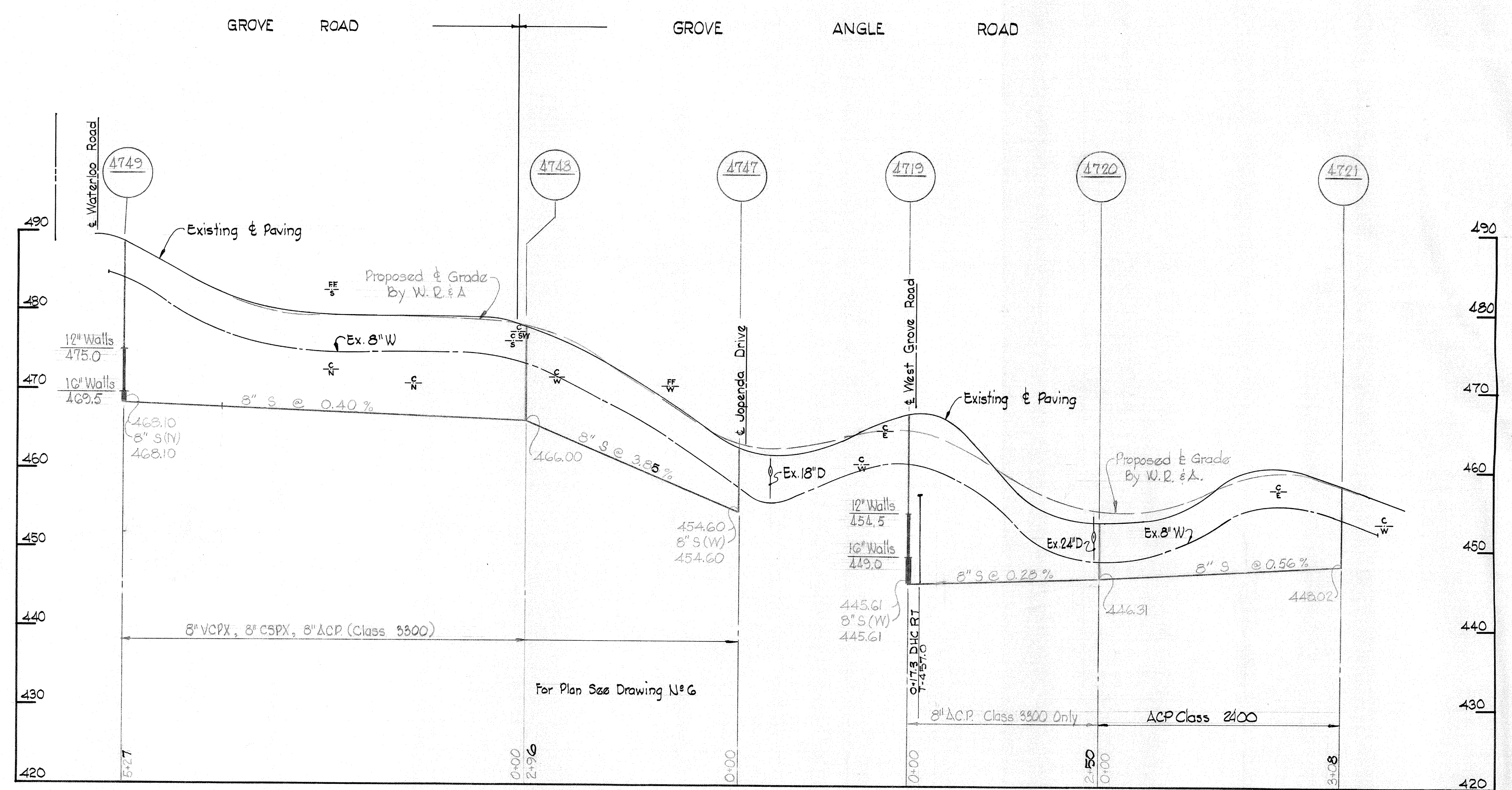
Oct 7, 1971 AS BUILT

WS 302-S/15

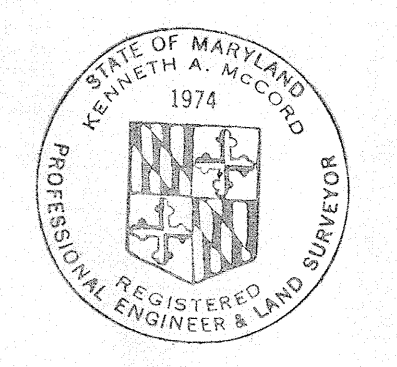
WS 302-S/16



PAYMENT LIMITS FOR DOUBLE DROP HOUSE CONNECTION  
Scale: 1/2" = 1'-0"



PROFILE  
Scale: Horz. 1" = 100'  
Vert. 1" = 10'



*Kenneth A. McCord*

WHITMAN, REQUARDT & ASSOCIATES ENGINEERS 1304 ST. PAUL ST. BALTIMORE, MARYLAND	HOWARD COUNTY METROPOLITAN COMMISSION DATE <u>5-6-70</u> <i>W O Falbert</i> CHIEF ENGINEER	CONTRACT NO. <u>302-S</u>	PROFILE & DETAILS OF SEWER MAINS	ELECTION DISTRICT ELLICOTT CITY No. 2	Contract N° 302-S
					DRAWING NO. <u>16</u> OF <u>16</u>

W. O. G. 85-2

Oct 7, 1971